Pantech Perception User Guide

verizon

# User Guide

PANTECH

Perception™

5U000692C0A REV.01

PANTECH

## Pantech Perception™
## User Guide

This smartphone's stylish design and careful craftsmanship showcase a vast range of advanced, convenient and cutting-edge features. Our state-of-the-art technology turns an otherwise simple smartphone into a comprehensive communication and lifestyle tool.

This user guide has important information to help maximize your Perception experience.

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**Note**

The smartphone is under continuous development. Due to changes or improvements, some description in this guide may differ slightly from the actual product.

# Read This First

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Universal Plug and Play (UPnP) technology targets home networks, proximity networks and networks in small businesses and commercial buildings. It enables data communication between any two devices under the command of any control device on the network. UPnP technology is independent of any particular operating system, programming language, or network technology.

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You will find the DLNA Certified™ logo on all kinds of new digital devices for your home and on the go—TVs, PCs, mobile phones, you name it. But they aren't the same TVs, PCs and mobile phones you're used to. They may look familiar, but they have new capabilities of DLNA Device Classes.

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This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

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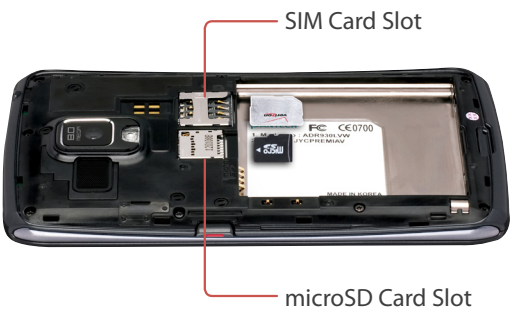
Covered by one or more of the following U.S. patents:

7,295,673; 7,460,668; 7,515,710; 7,519,274

# Getting Started

## Overview

Micro USB/
Charger port
Headset jack
Speaker
Rear camera
Flash
Power/Lock key
NFC touch point
verizon
4G LTE
PANTECH

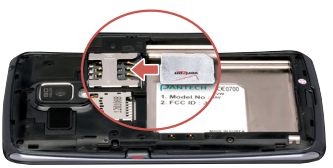

SIM Card Slot
microSD Card Slot

# Inserting the SIM card, microSD Card and Battery

Insert the SIM card provided by the wireless carrier and the battery.
Use a microSD card to expand available file storage. The microSD card is sold separately.

1. If the smartphone is on, press and hold the Power/Lock key and choose **Power off** to turn it off.
2. Remove the battery cover. Use the groove at the bottom of the smartphone to lift the cover from the smartphone.

3. Position the microSD and SIM cards with the logos facing up and slide them into place until they are fully inserted.



4. Insert the battery into the battery compartment with the contacts aligned.

5. Replace the cover. Insert the top of the cover, press the sides into place, and then press the bottom into place.

### Removing the SIM Card

1. Turn off the phone and remove the battery cover and battery.
2. Locate the SIM Card slot and gently pull the SIM Card out to remove it.

**Note**

A Subscriber Identity Module (SIM Card) is a "smartcard" that houses personal information, such as your mobile phone number, calling plan, and account information, such as contacts, text messages, and call history. The Verizon Wireless 4G LTE SIM Card is compatible with any Verizon Wireless 4G LTE certified device. The 4G LTE SIM Card can move from one device to another and your wireless service will support the services that are compatible with your new device. To see which devices are compatible with the Verizon Wireless 4G LTE SIM Card, visit http://www.verizonwireless.com/certifieddevice.

**Removing the microSD card**

Before removing the microSD card, first unmount it for safe removal.

Go to **Apps** > **Settings** > **Storage** > **Unmount SD card**.

In Starter mode: **Apps** > **Settings** > **System** > **Storage** > **Unmount SD card**

Push the microSD card until it is disengaged from the slot, and pull it out.

# Charging the Battery

1. Insert the small end of the USB cable into the Micro USB/Charger port.
2. Insert the other end of the USB cable into the power adapter.
3. Plug the power adapter into an electrical outlet to begin charging.

A computer can be also used to charge the smartphone by connecting via the USB cable.

**Caution**

Avoid acts that may cause the battery to explode or catch fire.

- Do not disassemble, bend, crush, puncture or shred the battery.
- Do not dip the battery in water or other liquids.
- Do not short (connect) the contacts on the battery with a metallic object.

# Elementary Controls

## Turning the Smartphone On and Off

Press and hold the Power/Lock key for a few seconds until the screen lights up. To turn the Smartphone off, press and hold the Power/Lock key, then tap **Power off** in the pop-up menu that appears.

## Initial Setup

When the smartphone is activated for the first time, the setup wizard guides users through the initial setup process. At each step, make a choice or skip the step:

- Interface language: Select a language for the interface. This can be changed later under **Apps** > **Settings** > **Language & input** > **Language**.
  In Starter mode: **Apps** > **Settings** > **System** > **Language & input** > **Language**
- Backup service: Subscribe to Verizon's Backup Assistant Plus service. This service keeps a copy of the smartphone's contacts on Verizon's server, in case the phone is lost or stolen. If skipped during setup, this service can be activated later under **Apps** > **Settings** > **Backup Assistant Plus**.
  In Starter mode: **Apps** > **Settings** > **System** > **Backup Assistant Plus**
- Email: Enter the relevant email service provider and other login data necessary to open an account using the **Email** app. If skipped during setup, this can be performed later under **Apps** > **Settings** > **Accounts & sync** > **ADD ACCOUNT**.
  In Starter mode: **Apps** > **Settings** > **System** > **Accounts & sync** > **ADD ACCOUNT**
- Location services: This feature requires user consent. Location services keep track of the precise location of the smartphone and allow certain apps to access this data. This presents some security risks. If skipped during setup, this can be activated later under **Apps** > **Settings** > **Location access**.

In Starter mode: **Apps** > **Settings** > **Wireless & network** > **GPS** or **Apps** > **Settings** > **System** > **Location access**

- Interface mode: Select **Starter mode** or **Standard mode**. Standard mode is selected by default. This can be changed under **Apps** > **Settings** > **Mode change**. See "Mode change" on page 34 for details about interface modes.
  In Starter mode: **Apps** > **Settings** > **Mode & application** > **Mode change** or **Apps** > **Settings** > **System** > **Mode change**
- Help: A couple of help videos are available. Watch the videos for easier understanding about the smartphone's basics.
- Google account: A Google account is necessary to maximize the utility of this phone's many features. If skipped during setup, this can be activated later under **Apps** > **Settings** > **Accounts & sync** > **ADD ACCOUNT**.
  In Starter mode: **Apps** > **Settings** > **System** > **Accounts & sync** > **ADD ACCOUNT**
- Google location: You can set to use Wi-Fi location or let Google apps access your location. If skipped during setup, this can be activated later under **Apps** > **Settings** > **Location access**.
  In Starter mode: **Apps** > **Settings** > **System** > **Location access**

The Setup Wizard app can be run any time to initialize this process again. This app can be also found under **Apps**.

## Locking and unlocking the Smartphone

When not in use, lock the smartphone to prevent unwanted operation. Pressing the Power/Lock key turns the screen off and puts the smartphone in lock mode.

The smartphone automatically locks if it is not used for a specified period. Go to **Apps** > **Settings** > **Display** > **Screen timeout**, then set the length of time that the smartphone waits before locking.

In Starter mode: **Apps** > **Settings** > **Display** > **Brightness** > **Screen timeout** or **Apps** > **Settings** > **System** > **Display** > **Screen timeout**

To unlock the Smartphone, press the Power/Lock key to turn the screen on, then swipe the lock icon .

> **Note**
> The direction in which to drag the lock icon varies depending on the lock screen type. Several types of lock screens are available. Refer to "Screen lock" on page 141 for details.

## Securing the Smartphone

Prevent others from using or accessing personal data and information stored in the smartphone by using the available security features.

Go to **Apps** > **Settings** > **Security** > **Screen lock** or **Apps** > **Settings** > **Personalization** > **Screen lock** > **Select screen lock.**

In Starter mode: **Apps** > **Settings** > **Mode & application** > **Screen lock** > **Select screen lock** or **Apps** > **Settings** > **System** > **Personalization** > **Screen lock** > **Select screen lock**

**Unlocking with the Slide**

Choose **Slide**.

**Unlocking with the Visual lock**

Choose **Visual lock**. It is set by default.

**Unlocking with the Modern lock**

Choose **Modern**.

**Unlocking with the Simple lock**

Choose **Simple lock**. The lock option is available only in Starter mode.

**Unlocking with the User's Face**

Choose **Face unlock**. Stare at the front camera and put the user's face in the dotted oval on screen. The oval turns green when the face is successfully recognized. Set a pattern or PIN in case the phone fails to recognize the face.

**Unlocking with a Pattern**

Choose **Pattern**, draw a pattern by connecting four or more dots, and then redraw the pattern for confirmation.

**Unlocking with a PIN**

Choose **PIN**, enter at least four numbers, and then re-enter the password for confirmation.

**Unlocking with a Password**

Choose **Password**, enter at least four letters, including numbers and symbols, and then enter the password again for confirmation.

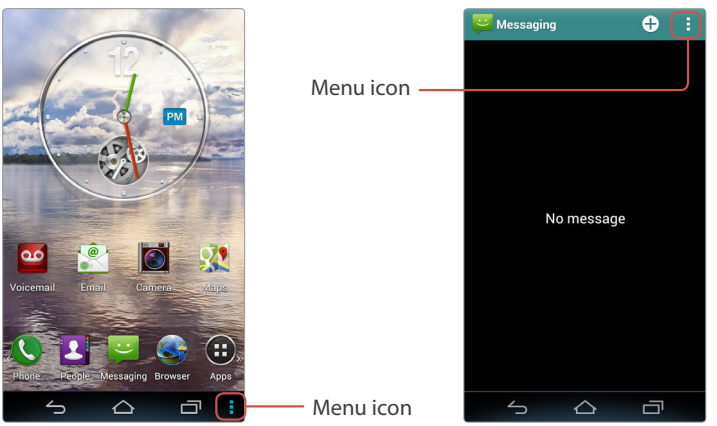
## On-screen Buttons

Use the three permanent on-screen buttons that appear at the bottom of the screen to navigate between screens.

| | | |
|---|---|---|
| | Back | Return to the previous screen. |
| | Home | Return to the Home screen |
| | Recent Apps | Display recently-used apps. Scroll through the list to see more apps, and tap an app entry to reactivate it. To clear an app entry from the list, slide it left or right. |

### Menu Icon

The Menu icon appears on the top or bottom of the screen when a menu is available. Each application and screen has a different set of menu options, and they can only be viewed using the Menu icon.



# Finger Gestures

### Tapping

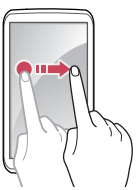
To open an app, to select a menu item, to press an on-screen button, or to type a letter using the on-screen keyboard, tap it with a finger.

### Tapping and Holding

Actions such as dragging or scrolling requires a tap-and-hold action. To perform this action, touch the screen with a finger and keep touching the screen until the action is complete.

### Dragging

To move an icon or thumbnail to a new location, tap and hold it, then drag it to the target position.



**Double-tapping**

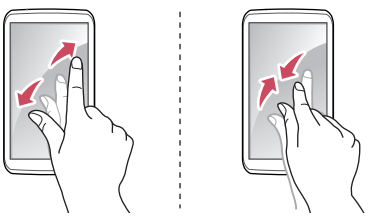
Double-tap quickly on a webpage, map or picture to zoom in. Double-tap again to return.

**Flicking**

Swipe quickly left, right, up, or down to navigate on many screens or within many apps.

**Pinching**

Spread two fingers apart on a webpage, map or picture to zoom in. Pinch together to zoom out.



## Hand Motions

Simple hand motions allow easy control of the smartphone when your hands are busy, such as driving or wearing gloves. Before using hand motions, make sure the option for this feature is enabled.

Go to **Apps** > **Settings**, then tap the OFF switch to turn on **Motion recognition**. Tap **Motion recognition** to view and select sub-options to use by checking the box beside each item.
It is also possible to turn on and off the motion recognition feature using the Notifications panel when in Standard mode.

In Starter mode: **Apps** > **Settings** > **System** > **Motion recognition.**

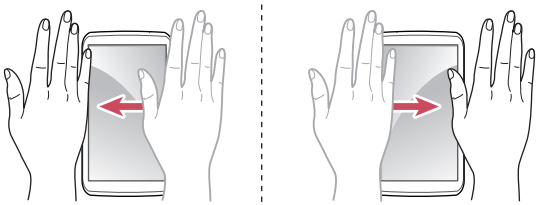
**Note**

- The front camera is used to sense motions.
- The interval between a hand and the lens should be under 2 to 8 inches.
- Using the motion recognition feature might drain significant amounts of power.
- A hand motion may not be properly recognized depending on the user's hand size and ambient brightness.
- When the screen is off, motions cannot be recognized.

### Sweeping

When using the Messaging, Music or Gallery app, sweep a hand to the left or right over the screen to view the previous or next message, song or picture.

Motion recognition is disabled in interactive message screens.

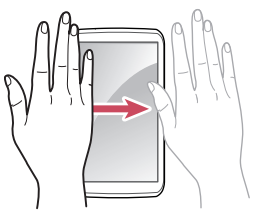


### Waving

Wave a hand twice or more over the screen to answer a call.

Go to **Apps** > **Settings** > **Motion recognition** > **Receive voice call**.
To use the speakerphone, select **Speakerphone usage** then **Use speaker phone**.

In Starter mode: **Apps** > **Settings** > **System** > **Motion recognition** > **Receive voice call**



**Covering**

When using the Music app, cover the screen with a palm to pause or resume playback.

When using Gallery, cover the screen for a second to start or stop the slideshow.

## Rotating the Screen

Many apps allow display in either portrait or landscape orientation. Rotating the smartphone causes the display to automatically adjust to fit to the new screen orientation.

To prevent the display from rotating automatically, open the Notifications panel and turn off **Auto rotate**. Alternatively, go to **Apps** > **Settings** > **Display** > **Auto-rotate screen**.

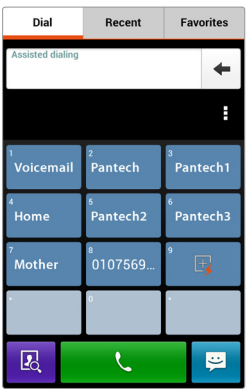
In Starter mode: **Apps** > **Settings** > **Display** > ▪▪▪ > **Auto-rotate screen** or **Apps** > **Settings** > **System** > **Display** > **Auto-rotate screen**

## Using the Speed Dialpad

The normal dialpad can transform into the speed dialpad by simply tilting or flipping the smartphone. To activate this feature, open **Phone**, tap ⋮ > **Call Settings** > **Dialpad gesture**, and then choose **Motion-tilt** or **Motion-flip**.

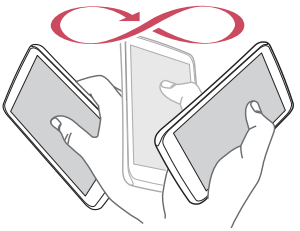
- **Motion-tilt**: With this option chosen, tilt the smartphone back to display the speed dialpad, and tilt forward to return to the normal dialpad.
- **Motion-flip**: With this option chosen, shake the smartphone back and forth to switch between the normal dialpad and the speed dialpad.

Open **Phone** and tilt or flip the smartphone to view the speed dialpad. To set a speed-dial number, tap a blank key and select a phone number from the contacts list. Tapping a key makes a call to the contact associated with the key.



## Geomagnetic Compass

Many apps, including Maps and user-installed games, use the built-in geomagnetic compass for accurate directions. If it seems not to work properly, wave the smartphone in a figure 8 pattern. There is no setting menu associated with this. Just follow the on-screen instruction to fix the geomagnetic compass' occasional malfunctions.



# Signing Up for a Google Account

A Google account is necessary to maximize this smartphone's usefulness.

- Google services rely on a Google account for contacts, and email and the calendar.
- An account is necessary to buy free or paid apps from Play Store.

To sign up for a new account, go to **Apps** > **Settings** > **Accounts & sync** > **ADD ACCOUNT** > **Google** > **New**. Otherwise, choose **Existing** instead of **New** to sign in with an existing account.

In Starter mode: **Apps** > **Settings** > **System** > **Accounts & sync** > **ADD ACCOUNT** > **Google** > **New**

Enter the account information:

- Provide a first and last name for the account user.
- Add a username, which will also be used as a Gmail address. If the username is already taken, select one of the alternates suggested or enter a new one.
- Enter a password of 8 letters or more.
- Add an email address and a security question, used to recover the password if the password is lost.
- Agree to the terms.
- Tap **Sync Contacts** to sync the smartphone's contacts list with the Google account's contacts. This provides a convenient backup if the smartphone is lost or stolen.

**Note**

The menu items for Google applications may be changed after the automatic application update.

# Basic Operations

## Status Icons

The icons displayed in the status bar at the top of the screen provide information about the smartphone's status.

Go to **Apps** > **Settings** > **About phone** > **Icon glossary** to get more information about and to see other status icons.

In Starter mode: **Apps** > **Settings** > **System** > **About phone** > **Icon glossary**

| | |
|---|---|
| | Error |
| | Gmail has arrived |
| | Updates available in Play Store |
| | Screen shot is saved |
| | Battery status: Charging |
| | Battery status: Fully charged |
| | Battery status: Empty |
| | Battery status: Remaining battery life |
| | Battery status: Connected to an unknown power supply |
| | Connected to a Wi-Fi network |
| | Connected to Wi-Fi Direct |
| | Verizon Wi-Fi AP connected and authentication succeeded |

Verizon Wi-Fi AP detected

Verizon Wi-Fi AP connected but authentication failed

GPS active

Mobile Hotspot active

Mobile Hotspot paused

Mobile Broadband active

Bluetooth on and device connected with a paired device

Bluetooth on but device not connected with any other device

Speakerphone on

Signal Strength

Signal Strength: No signal

Transferring through 4G network

Transferring through 3G network

Transferring through CDMA, 1XRTT

Transferring through EDGE

Transferring through GPRS

Transferring through HSDPA/HSUPA/HSPA

Wi-Fi off

Wi-Fi on but no Wi-Fi network detected

Wi-Fi on and Wi-Fi networks available

Wi-Fi error

Airplane mode active

Headset is connected

USB connected

Updating App

Data service available

Firmware upgrade available

More notifications

Text input mode: English uppercase letters

Text input mode: English lowercase letters

Text input mode: Numeric

Text input mode: Symbols

Text input mode: Korean

Sync active

Error during synchronization

Sound effect: Mute

Sound effect: Vibrate

Power saver active

Femtocell active

Call in process

Call in process via Bluetooth

Forwarding Call

Call on hold

Missed call

TTY mode active

Privacy call in process

Privacy call in process via Bluetooth

Privacy call on hold

Emergency callback mode

Calendar event notification

UICC activation

Unrecognized UICC

No UICC recognized

Loading SIM card contacts

Roaming

Synchronizing Backup Assistant Plus contacts

Data usage exceeded the limit

Data usage about to exceed the limit

Continued data usage after exceeding the limit

Data restricted

Alarm set

Alarm snoozing

Timer on

Incoming SMS has arrived

High priority SMS has arrived

Incoming MMS has arrived

High priority MMS has arrived

WAP has arrived

High priority WAP has arrived

Message not sent

CMAS has arrived

New voicemail has arrived

High priority voicemail has arrived

Visual Voice Mail has arrived

On-going download

On-going upload

Requesting to render media files from other devices

Music currently playing (including BGM)

NFC on

Email to AOL accounts has arrived

Email to Exchange accounts has arrived

Email to Verizon accounts has arrived

Email to Hotmail accounts has arrived

Email to Yahoo accounts has arrived

Email to Other accounts has arrived

Safe-reader on

AmazonMP3: On-going download

AmazonMP3: download completed

AmazonMP3: loading contents

AmazonMP3: Playing content

AmazonMP3: Error

Slacker Radio: Play Radio

SwiftKey for Pantech notification

# Mode change

This smartphone provides two interface modes: Standard mode and Starter mode.

In Standard mode, which is the default, the smartphone's appearance looks similar to most other kinds of smartphones.

To change Starter mode, go to **Apps** > **Settings** > **Mode change**, then tap **Starter mode**. To get back to Standard mode, go to **Apps** > **Settings** > **Mode & application** > **Mode change**, then tap **Standard mode**.

Starter mode provides a simplified, easy-to-use interface for users who are not familiar with smartphones.

Refer to "Standard Mode" on page 35 and "Starter Mode" on page 43 for details about each mode.

# Standard Mode

## Home Screen

The Home screen is the starting point for accessing this smartphone's features. It displays widgets with useful functions and shortcuts to apps.

The Home screen has multiple pages. To see the other pages, flick the screen left or right or, alternatively, tap the bar on the bottom of the screen.

### Launcher

The Launcher, which is on the lower part of the Home screen, provides immediate access to the most frequently used apps. Tap an app shortcut to open the app.

To see more app shorcuts in the Launcher, flick the Launcher left or right.

### Moving Items

Tap and hold an item, and drag it to a new location. To move it to another page, drag it to the side of the screen until the desired page appears and lift your finger to set in place.

### Adding App Shortcuts

Open **Apps**, tap and hold the desired app icon, and then drag it onto a Home-screen page preview and lift your finger to set.

### Adding Widgets

A number of widgets such as calendars and clocks are available for the Home screen. To add a widget, tap and hold an empty area on the Home screen or, alternatively, tap the Menu icon . Tap **Widgets**, and then drag one of the widgets that appear onto a Home-screen page preview.

### Removing Shortcuts and Widgets

Tap and hold a shortcut or widget, then drag it to the Delete icon at the top of the screen.

### Creating Folders

Tap and hold a shortcut, then drag it onto another shortcut. A folder is created to contain them. Create a folder in the Launcher in the same way.

To change a folder's name, tap the folder, tap the Settings icon , and then enter a new name.

### Adding Home-screen pages

Pinch the Home screen. Previews of the Home-screen pages are displayed. Tapping **New Panel** produces a new page. Tap the Home button to finish.

### Rearranging Home-screen pages

Pinch the Home screen, tap and hold a page preview, and then drag it to a new location.

### Removing Home-screen pages

Pinch the Home screen, tap and hold a page preview, and then drag it to the delete icon that appears.

### Setting Wallpaper

To change wallpaper, tap and hold an empty area on the Home screen or, alternatively, tap > **Wallpapers**. Wallpaper thumbnails are displayed in four tabs.

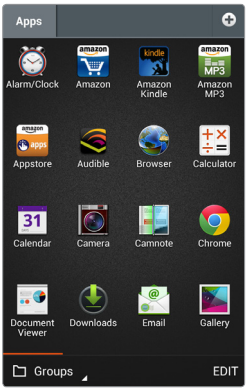
- **Live Wallpapers**: animated images
- **Wallpapers**: still images
- **Gallery**: photos taken by the smartphone's camera and pictures stored on the memory card
- **Downloaded Wallpapers**: wallpaper applications downloaded from Play Store

Tap a wallpaper thumbnail to preview it, then tap **Set wallpaper** to finish.

## Apps Screen

Tap **Apps** in the Launcher to open the Apps screen. The Apps Screen displays icons for all apps, including any new apps installed.

The Apps screen has multiple pages. Flick the screen left or right to see other pages.




### Changing Display Modes

Tap the pop-up list on the bottom left of the screen to change display modes.

- **Groups**: Display apps by group.
- **Alphabetical**: Display apps by name in alphabetical order.
- **Downloads**: Display only downloaded apps.

### Searching for Apps

Tap ⋮ > **Search**, then enter a keyword into the search field. As letters are entered, a list populates with matches. Further typing refines the search.

### Rearranging Apps

Tap **EDIT** on the bottom right of the screen. Every app becomes movable and marked with a pencil icon. Tap and hold an app, then drag it to a new location.

### Viewing an App's Information

Tap **EDIT**, tap the pencil icon on an app, and then tap **Info**.

### Hiding Apps

Tap **EDIT**, tap the pencil icon on an app, and then tap **Hide**. To reveal a hidden app, tap > **View hidden apps**. Hidden apps are displayed. Tap the pencil icon on an app, then tap **Unhide**.

### Uninstalling Apps

Default apps that come preloaded on the smartphone cannot be uninstalled. Only user-installed apps can be uninstalled.

Tap **EDIT**, tap the pencil icon on an app, and then tap **Uninstall**.

### Creating Groups

Create groups to more easily manage apps.

Tap the pop-up list on the bottom left of the screen and choose **Groups** to change the display mode. Tap the plus icon or, alternatively, pinch the Apps screen, then tap **New group**. Enter a group title. A tab is created with the specified title for the new group.

To change the group's title, tap the Settings icon next to the title, then enter a new title.

To move an app to another group, tap **EDIT**, tap and hold an app, then drag it to a group tab.

### Rearranging Groups

Pinch the Apps screen. Tap and hold a group preview, then drag it to a new location. Tap any group preview to finish.

### Removing Groups

Pinch the Apps screen. Tap and hold the preview of an empty group, then drag it to the delete icon that appears.

### Changing App Icons

Two groups of app icons are available.

Tap > **Change Icons**, select one of two icon groups that appear, and tap **Save**.

### Sharing Apps

User-installed apps can be shared with others. Tap >**Share**, select an app from the list of user-installed apps that appears, and then choose a sharing method.

### Going to Google Play Store

To directly go to Google Play Store for purchasing apps, tap > **Play Store**.

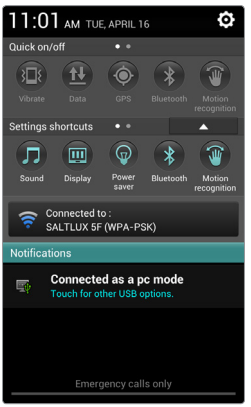
# Notifications

Notification icons appear on the status bar at the top of the screen to report missed calls, new messages, calendar events, and more.

Drag down from the status bar to open the Notifications panel. To close the Notifications panel, drag up from the bottom of the screen.

Scroll down the list to see more alerts. Tap an alert entry to see the details. To clear an alert entry, slide it left or right.

In addition, the Notifications panel provides quick access to the most frequently changed settings.




- **Vibrate**: Mute the phone and enable vibration.
- **Data**: Allow data communication over mobile network.
- **GPS**: Activate the GPS to get the current location.
- **Bluetooth**: Activate the Bluetooth to connect to a Bluetooth device such as a Bluetooth headset.
- **Motion recognition**: Activate the motion recognition feature.
- **Airplane mode**: Disable all wireless functions.

- **Auto rotate**: Allow applications such as Gallery or Calculator to automatically change the interface to fit to the smartphone's direction, portrait or landscape.
- **Auto sync**: Allow applications such as People or Calendar to sync contacts, events or other data with Google services.

Extend **Settings shortcuts** by tapping the extend icon ▼ to see more configurations, such as about **Sound** or **Display**. See "Settings" on page 141 for details about each configuration.

# Starter Mode

## Home Screen

The Home screen is the starting point for accessing the smartphone's features. It displays shortcuts for favorite contacts and apps, and thumbnails for web bookmarks.

The Home screen has multiple pages. To see the other pages, flick the screen left or right, or tap one of the page icons on the top of the screen.

: Favorite Apps page : Favorite Contacts page : Dialer page : Bookmarks page

### Launcher

The Launcher, which is on the lower part of the Home screen, provides immediate access to the most frequently used apps. Tap an app shortcut to open the app.

### Setting Wallpaper

See "Setting Wallpaper" on page 37.

### Making a Call to a Favorite Contact

Go to the Favorite Contacts page, then tap a contact.

To add a contact, tap a blank shortcut that is marked with a plus symbol, then select a contact from the contacts list or tap **Create new contact** to add a new contact.

To delete a contact, tap **Edit**, next to the contact shortcuts, tap a contact which is marked with a minus symbol, and then tap **Done**.

### Dialing Manually

Go to the Dialer page, enter a phone number, and then tap the handset icon on the dialpad. To send a message, tap the messaging icon.

### Launching Favorite Apps

Go to the Favorite Apps page, then tap an app.

To add an app, tap a blank shortcut, and then select an app.

To delete an app, tap **Edit**, tap an app which is marked with a minus symbol, then tap **Done**.

**Opening Bookmarked Webpages**

Go to the Bookmarks page, then tap a bookmark thumbnail.

To add a bookmark, tap a blank shortcut +, and then select a bookmark.

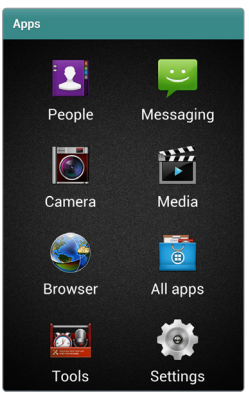
To delete a bookmark, tap **Edit**, tap a bookmark which is marked with a minus symbol, then tap **Done**.

Tap the search field to open the **Google** app. See "Google" on page 135 for details.

## Apps Screen

Tap **Apps** in the Launcher to open the Apps screen.

The Apps screen displays icons for the most frequently-used apps and a few folders that contain similar kinds of apps.
Tap **All apps** to access the rest of the apps, including any new apps installed.



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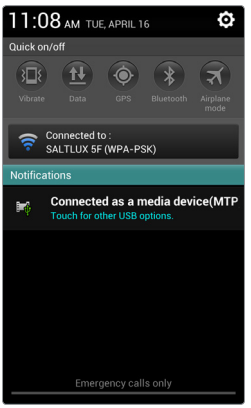



- **Vibrate**: Mute the phone and enable vibration.
- **Data**: Allow data communication over mobile network.
- **GPS**: Activate the GPS to get the current location.
- **Bluetooth**: Activate the Bluetooth to connect to a Bluetooth device, such as a Bluetooth headset.
- **Airplane mode**: Disable all wireless functions.

# Networking

A number of applications, such as Browser and YouTube, need to access the Internet for proper operation. Data transfer over regular mobile service can use up bandwidth and rack up substantial charges. The best idea is to use Wi-Fi networks for data transfer.

## Connecting to a Wi-Fi Network

Open **Apps** > **Settings** and turn on **Wi-Fi**.

In Starter mode: **Apps** > **Settings** > **Wireless & network** > **Wi-Fi**

> **Note**
>
> It is also possible to access the Wi-Fi settings from the Notifications panel.

### Joining a Wi-Fi Network

Tap **Wi-Fi,** select a network from the list of detected Wi-Fi networks, enter a password if necessary, and then tap **Connect**. Networks that require a password appear with a lock symbol.

After the smartphone connects to a Wi-Fi network, the smartphone automatically connects to the Wi-Fi network any time it is available.

### Adding Wi-Fi Networks

Tap **SCAN** to rescan for available networks. If a desired network does not appear in the networks list, tap **ADD NETWORK**. Enter the network name, specify the security type, enter the password if it is not an open network, and then tap **Save** to finish.

### Forgetting Wi-Fi Networks

Any network that has ever been used, including the current network, can be forgotten so that the smartphone will not automatically connect to it. Tap an undesired network and tap **Forget**.

## Tethering or Mobile Hotspot

Use Tethering or Mobile hotspot to convert the smartphone into a combination of modem and wireless router, if there is no available Wi-Fi network. A computer and any other device connected to the smartphone can access the Internet via the regular mobile service.

> **Note**
>
> If the smartphone is using regular mobile service to access the internet, significant data use charges may occur.

Go to **Apps** > **Settings** > **More** > **Tethering & portable hotspot**.

In Starter mode: **Apps** > **Settings** > **System** > **More** > **Tethering & portable hotspot**

The network that the smartphone creates is available via three methods:

- **USB tethering**: Connect a computer to the smartphone via the USB cable.
- **Mobile hotspot**: On a device, choose the smartphone's network from the list of available Wi-Fi networks.
- **Bluetooth tethering**: Pair a Bluetooth device with the smartphone.

> **Note**
>
> To quickly launch Mobile Hotspot, use one of the following methods:
>
> - Open the **Mobile hotspot** app from the Apps screen, then tap **Mobile hotspot**.
> - In Standard mode, open the Notifications panel, extend **Settings shortcuts**, and then tap **Mobile hotspot**.

### Mobile Hotspot Settings

From the **Tethering & portable hotspot** screen, tap **Mobile hotspot settings** > **Configure mobile hotspot**.

- **Network SSID**: Enter a network name for the network that the smartphone creates. Other devices use this name to connect to the network.
- **Hide SSID**: Prevent other devices from detecting the smartphone's network.
- **Security**: Choose a security type.
- **Password**: Enter a password to be suitable for the security type chosen.

## Pairing with a Bluetooth Device

The smartphone is compatible with Bluetooth devices, such as headsets, earphones, and keyboards. Bluetooth can also be used to transfer files with another Bluetooth-enabled device.

Open **Apps** > **Settings**, turn on **Bluetooth**, and then tap **Bluetooth**.

In Starter mode: **Apps** > **Settings** > **Wireless & network** > **Bluetooth**

A list of available Bluetooth devices appears after scanning.

To manually scan for Bluetooth devices again, tap **SEARCH FOR DEVICES**. Select a desired device, and then accept the auto-generated passkey on both devices for confirmation.

### Changing the Bluetooth Device Name

Tap ⋮ > **Rename phone**, then enter a new name. The new name is used for other Bluetooth devices to recognize the smartphone.

### Changing Bluetooth Visibility

Tap the smartphone entry at the top of the Bluetooth devices list to make the smartphone visible to other Bluetooth devices, so that they can detect the smartphone. To make the smartphone invisible or only visible to the device paired with the smartphone, tap the smartphone entry again.

To change the visibility time, tap ⋮ > **Visibility timeout**.

### Sending and Receiving Data

Many applications support data transfer via Bluetooth. One example is the **Gallery**.

1. Open the **Gallery**, select a picture, tap the share icon , choose **Bluetooth**, and then select one of the detected Bluetooth devices.
2. Accept the authorization request on the other device to receive the picture.
3. The transferred file is saved in the Bluetooth folder.

### Pairing Using NFC

NFC makes it easier to pair the smartphone with an NFC-enabled Bluetooth device. Slightly put the smartphone to a Bluetooth device for pairing.

Make sure NFC is active before using this feature.

See "Exchanging Data via NFC" on page 53 for details about NFC.

1. With NFC enabled, place your smartphone next to the NFC compatible Bluetooth device to pair.
2. Tap **OK** when you are asked to confirm to pair with the device.
3. Tap **OK** to finish the pairing process.

## Wi-Fi Direct

The Wi-Fi Direct feature allows two Wi-Fi devices to directly connect to each other with no need for a wireless router.

1. Activate Wi-Fi Direct on the target device.

   Go to **Apps** > **Settings** > **Wi-Fi** > ⋮ > **Wi-Fi Direct**.
   In Starter mode: **Apps** > **Settings** > **Wireless & network** > **Wi-Fi** > ⋮ > **Wi-Fi Direct**

2. A list of available devices appears after scanning. To manually scan for Wi-Fi Direct devices again, tap **SEARCHING...**. Select a target device and tap **Connect**.

3. To rename Wi-Fi Direct device, tap **RENAME DEVICE**. Enter the new name and tap **OK**.

## Transferring Files via USB Connection

A USB connection between the smartphone and a computer allows them to transfer files. Download the USB driver for this smartphone from the Pantech website and install it on a computer to enable the computer to recognize the smartphone.

1. Connect the smartphone to the computer via the USB cable.
2. Go to **Apps** > **Settings** > **Storage** > **USB connection options**.
   In Starter mode: **Apps** > **Settings** > **System** > **Storage** > **USB connection options**
3. Choose one of these connection modes:
   - **Media device (MTP)**: The computer recognizes both the smartphone's internal memory and the memory card on it.
   - **Camera (PTP)**: The computer recognizes only picture files. Whereas Windows XP recognizes only the smartphone's internal memory, Windows 7 recognizes both the internal memory and memory card.
   - **External memory (SD card)**: The computer recognizes only the smartphone's memory card. Tap **Turn on USB storage** to activate this connection mode.
   - **PC data mode**: Under this mode, you can manage files on your phone storage using a provided PC tool.

   When the **Ask on plug** option is disabled, the smartphone re-uses the connection mode that was used last for new connections. When enabled, the smartphone displays this screen in order for the user to choose a different connection mode.
4. Copy files from the computer to the smartphone's memory card, or vice versa.

To release the **External memory** connection, tap **Turn off USB storage**. If the screen in question is closed, open the Notifications panel and tap **Turn off USB storage** to get back to the screen.

> **Note**
> While the **External memory** connection is active, some apps cannot access the memory card.

## Exchanging Data via NFC

Near Field Communication technology allows users to exchange data, such as a contact or webpage, between NFC-enabled smartphones. An example is the Browser.

1. Go to **Apps** > **Settings** > **More**, then turn on both **NFC** and **Android Beam**.
   In Starter mode: **Apps** > **Settings** > **System** > **More** > **NFC** and **Android Beam**
2. Launch the **Browser** and open a webpage.
3. Bring the smartphone into contact with another smartphone back to back.
4. Tap anywhere on the webpage. The same webpage is opened on the other smartphone.

**Note**

The NFC antenna is located on the lower half of the back cover. Use the center of the area to get the best performance.

NFC touch point

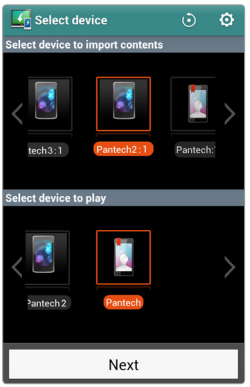
Align this point with an NFC device.

# Net Media

Net Media allows users to share and stream many kinds of media, including image, music and video, between DLNA-enabled devices. Make sure DLNA devices are connected to the smartphone via Wi-Fi Direct or on the same Wi-Fi network.

Tap **Net Media** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Net Media**




### Key Features

The smartphone can play three roles: a media server, a media player, or a media controller.

- When acting as a media server, the smartphone allows other devices to access the smartphone for media content sharing. Configure the media server using the setting menu.
- When acting as a media player, the smartphone can play media files from other devices as well as itself.
- When acting as media controller, the smartphone can command a device to play media files from another device.

**Connecting Devices**

As Net Media is launched, any available linkable devices are displayed on the screen.

- The screen's upper panel shows devices which are ready to send media files to another device.
- The screen's lower panel shows devices which are ready to accept and play media files from another device.

Flick the panel to move between devices if more than one is available.

To rescan for available DLNA devices and detect them, tap the refresh icon on the top right of the screen.

The following active data transfer actions are available:

- Push a media file from the smartphone to another device for playing.
- Push a media file from another device to the smartphone for playing.
- Let the smartphone push a media file from a device to another device for playing.

Follow this procedure:

1. Select the smartphone or a device in the upper panel to push a media file.
2. Select the smartphone or a device in the lower panel to play the pushed media file.
3. Tap **Next**. If an approach request is made on any side, allow it.
4. Select a file category.
5. Tapping a file starts to push the file for playing.

   To merely send or fetch a file without playing it, tap and hold a file, choose **Upload** or **Download**, and then follow the instructions.
   It is possible to send a picture file to a DLNA-enabled printer via a Wi-Fi network for printing. Choose **Print**, and then follow the instructions.

### Playing Media Files

When devices are successfully connected, the source device's media files are listed on the smartphone. This networked media file access can be applied to several situations, including:

- The smartphone allowing a TV to play the smartphone's media files
- The smartphone playing media files from a tablet
- The smartphone allowing a TV to play media files from a tablet

In every case, the smartphone controls playback. Net Media has a variety of built-in media players to play different types of media file. For these media players, refer to "Gallery", "Music", and "Videos", though Net Media's media player interfaces differ.

The smartphone can also be put under the control of another device, as well.

### Net Media Settings

Tap the settings icon ⚙.

- **Phone name**: Enter a unique name for the smartphone. The name is used for identification by other devices.
- **Network info**: This shows the Wi-Fi network to which the smartphone is currently connected.
- **Net Media server on**: When activated, this setting allows other devices to search my smartphone.
- **Contents share**: When activated, this setting allows other devices to access and control media files in the smartphone.
- **Sharing device management**: Determine whether to permit or forbid a device to share media files with the smartphone.
- **Contents position**: Select the storage where the media files are stored.
- **Contents share folder**: Choose a folder to keep files for sharing. Only files from this folder are visible over the network.
- **Download directory**: Select a directory to download media files.
- **Upload directory**: Select a directory to upload media files.

# Location-Based Services

Use the smartphone's GPS features to get directions, to identify locations, to keep track of weather conditions, and to tag messages and photographs with location details.

This smartphone provides several location-based applications, including Latitude, Maps, Places, and more. To use these apps properly, make sure the following prerequisites are met.

- Go to **Apps** > **Settings** > **Location access** to active the GPS features. Check **Access to my location** to allow applications to use the user's current location for better search results. Check **Standalone GPS services** to activate GPS. Check **Verizon location services** and **Google's location service** to pinpoint the current location more precisely.

  In Starter mode: **Apps** > **Settings** > **Wireless & network** > **GPS** or **Apps** > **Settings** > **System** > **Location access**

- Make sure the smartphone is connected to the Internet via either Wi-Fi or mobile service.

**Note**

Your wireless device can determine its physical and geographical location (Location Information). Certain applications and services access, collect and use Location Information and disclose the information to others. Use caution and discretion when you make Location Information available to them.

To limit potential unauthorized access to your Location Information, Verizon Wireless devices are preset to E911 which only allows authorized emergency response personnel to locate you when you dial 9-1-1 from your wireless device.

When you select **Verizon location services**, **Standalone GPS services**, or **Google location services**, you allow third party access to Location Information. Any software, widget or peripheral components or service you choose to download, add or attach to your wireless device or otherwise access or use can use this information. Check your wireless device periodically and only use software, widgets, peripheral components and services from reliable sources.

Verizon Wireless makes no representation of accuracy, completeness or timeliness of any location data, product or service. When you use your mobile Browser or other services and applications, you authorize Verizon Wireless to collect, use and disclose your Location Information to provide you with any location services. Verizon Wireless does not retain Location Information longer than necessary to provide the services to you. We will not knowingly disclose your Location Information to third parties without your consent, except as required by law.

Carefully review the privacy policies of application providers and third parties who have access to your Location Information. Significant risks can be associated with disclosing your Location Information to others.

## Emergency Call

Dialing 911 for emergency services does not require a subscription to a mobile phone service. It is even possible to dial 911 without a SIM card. No charges are made for 911 calls.

## Capturing a Screenshot

Any screen displayed on the smartphone can be captured for future reference.

Press and hold the Volume-Down key and the Power/Lock key at the same time to create a screen capture. The screen capture image is saved in the Screenshots folder.

# Calling & Messaging

## Phone

Tap **Phone** from the Launcher to open.

## Phone Calls

### Making Calls

Several methods are available for calling, as follows:

- Enter a phone number using the dialpad, then tap the handset icon . As the number is entered, previously dialed numbers that match appear in a list. Choose one, if appropriate.
- Tap **Recent**, then select a call from the history of incoming and outgoing call.
- Tap **Favorites**, then select a contact from the list of favorite contacts.
- Tap the contacts icon , then select a contact from the contacts list.

### Answering Calls

Tap **Answer** to receive an incoming call, or tap **Ignore** to decline it. To decline a call and send a message to the caller, tap **Send MSG**.

If a call comes in when the screen is off, drag the green handset icon to the center to answer it. To decline it, drag the yellow handset icon to the center. To send a message to the caller, tap **Send MSG**.

A waving action can also be used to answer a call. See "Waving" on page 24 for details.

### While on a Call

Tap **Mute** to turn the microphone off so that the phone doesn't transmit sound to the other party.

Tap **Speaker** to turn the speakerphone on.

When a Bluetooth headset is connected to the smartphone, tap **Bluetooth** to switch to the headset.

### Speed Dialing

To set speed-dial numbers, tap ⋮ > **Speed dial setting**, choose a blank speed number, and then select a phone number from the contacts list.

Tap and hold a number on the keypad to place a call using a speed-dial number. Then, tap **Call** to call or **Message** to send a message for the speed dialing number.

There is more convenient way for speed dialing. See "Using the Speed Dialpad" on page 26 for details.

### International Roaming Call

Tap ⋮ > **Assisted dialing**, and then turn **Assisted dialing status** on. Tap **Reference country** and select a country as home location.

Making a call in a current country connects to the specified country.

### Call Waiting

Call waiting is a service provided by wireless carriers. A user can use this service to suspend a current call and switch to an incoming call.

While on a call, tap **Accept** to answer another call. To switch between the two calling parties, tap **Swap**.

### Conference Call

Make a call, then tap **Add call** to make more calls. When two or more calls are made, the **Add call** button changes to **Merge**. Tap **Merge** to combine the calls into a conference.

## Phone Settings

On the Dialpad screen, tap ⋮ > **Call settings**.

- **Receive call by vol.up key**: Allow pressing and holding the Volume-up button to answer a call.
- **Dialpad style**: Choose a dialpad style.
- **Dialpad gesture**: Check a speed dial by tilting or flipping the device.
- **Voicemail**: Sets the voice mail settings options.
- **Auto answer**: With this activated, incoming calls are automatically picked up if a headset is connected.
- **Assisted dialing**: Check the **Assisted dialing status** box to allow international roaming calls. Tap **Reference country** and select a country as the home location.
- **Always on top**: Check the **Display call status window** box to allow the Home button ⌂ to display the call status window while on a call.
- **Edit reject message**: Set to edit text messages to send to callers when rejecting incoming calls.
- **Lock screen**: Even when the smartphone is locked with a screen lock such as PIN, Password, or Pattern, users can open the dialpad by tapping **Emergency call**.
- **Auto-retry**: Set the interval to automatically redial after a call failure.
- **TTY mode**: Select teletypewriter mode.
- **DTMF tones**: Select touch tone for dialing. This is used for a variety of call services.
- **Voice privacy**: Enable voice encryption for improved security.
- **Show dialpad**: Allow the dialpad to display service numbers and custom numbers.

# Voice Dialer

Use Voice Dialer to dial by voice.

Tap **Voice Dialer** from the Apps screen to open.
In Starter mode: **Apps** > **All apps** > **Voice Dialer**

Speak a command, similar to these examples:

- "Call John Doe at home"
- "Dial 555-1234"
- "Dial 911"
- "Redial"

Select one of suggested words that appear after speaking.

# People

Use People to manage contacts, including phone numbers and email addresses.

Tap **People** from the Launcher to open.

### Adding Contacts

Tap the plus icon ⊕. Either select an account to sync the new contact to or select **Phone** to avoid synchronizing. Enter the contact's name, information and any other desired information. Tap the ⊕ icon if you have more than one number or email address for the icon. Tap the figure icon 👤 to add a picture. Tap **Add another field** to add more information such as the contact's organization or website address. Tap **Save** to finish.

### Editing Contacts

Select a contact and tap the pencil icon ✎.

To add to favorite contacts, tap the Star icon ★.

### Deleting Contacts

Select a contact, tap ⋮ > **Delete contact**.

### Calling Contacts

Select a contact, and tap the handset icon 📞 next to a phone number.

### Messaging Contacts

Select a contact, and tap the messaging icon 💬 next to a phone number.

### Searching for Contacts

Use one of the following methods:

- In the **Groups** tab, enter a contact name, phone number, email address, or any other search criteria.
- In the **Favorites** tab, tap the search icon and enter a contact name, phone number, email address, or any other search criteria.
- In the **People** tab, enter search criteria into the search field on the upper part of the screen.

As letters are typed, a list appears with potential matches, any one of which can be selected.

### Sharing Contacts

Select a contact, tap > **Share contacts**, and then choose a sharing method.

### Backing Up Contacts

Export the contacts to the SIM Card or a memory card for backup.

Tap > **Import/Export**, then choose **Export to SIM card** or **Export to SD card**.

The **Export to SD card** option exports contacts from the phone to the SD card.

There are two options for exporting to the SIM card. The **Export to SIM card (Copy)** option is better to use than the **Export to SIM card (Move)** because copying leaves the data in the internal memory while moving deletes it.

To import the contacts from the SIM card or the memory card, choose **SIM card contacts** or **Import from SD card**.

### Backup Assistant Plus

**Backup Assistant Plus** is Verizon's backup and sync service. To back up the contacts to the Verizon online storage, tap > **Backup Assistant Plus**.

# Messaging

Use Messaging to send text or multimedia messages.

Tap **Messaging** from the Launcher to open.

### Sending Messages

Tap the plus icon ⊕, then compose a message.

- Type phone numbers, emails, or names to add recipients. To select recipients from the contacts list, recent calls, or a group of contacts, tap the figure icon 👤.
- If there are two or more recipients, either choose **Individual messages** to send the message to each recipient separately or choose **Group conversation**.
- To send the message to online album, tap ⋮ > **To online album**.
- To insert a contact, web bookmark, or ready-made text such as "on my way", tap ⋮ > **Insert text**.
- To add more messages, tap ⋮ > **Add slide**.
- To insert an emoticon, tap ⋮ > **Insert smiley**.
- To add a subject, tap ⋮ > **Add subject**.
- To add a slide for a message, tap ⋮ > **Slide manager** > 🖼+.
- To set priority, tap **Set priority(Normal)** > **Normal** or **High.**
- To attach pictures, videos or other files, tap **Attach**.
- Finally, tap **Send** to send the message.

### Viewing Messages

Incoming messages are grouped into message threads by contact. Select a contact to view that contact's messages.

- Tap 📞 to call the contact in the message.
- Tap ⋮ to select a message compose option, to reply for the message, or delete it.

### Searching for Messages

Tap ⋮ > **Search** and enter a search criteria.

### Deleting Messages

Use one of the following methods:

- Tap and hold a message, select more messages by tapping, and then tap the delete icon 🗑 > **OK**.
- Tap ⋮ > **Delete**, select messages by tapping, and then tap the delete icon 🗑 > **OK**.

# Entering Text

### Changing the Keyboard

This phone supports several different language keyboards.

Go to **Apps** > **Settings** > **Language & input** > **Default**, then choose keyboard type.

In Starter mode: **Apps** > **Settings** > **System** > **Language & input** > **Default**

- **Pantech keyboard** allows to type symbol and emoticon characters easily.

- **SwiftKey for Pantech** allows to type multiple languages.

To switch from the Pantech keyboard to SwiftKey for Pantech, tap and hold the ?123 key and choose **Select input method** > **SwiftKey for Pantech**.

To switch from the SwiftKey for Pantech to the Pantech keyboard, tap and hold the microphone key and choose **Input method** > **Pantech keyboard**.

### Typing Uppercase

Tap the Shift key before typing a letter. For all caps, tap it twice.

### Typing Extra Letters

Tap the ?123 key to type numerals, symbols, and punctuation marks. There is another way to type them more easily. A key has one or more extra letters. To type an extra letter, tap and hold the key corresponding to the letter.

### Speech to Text

Tap the microphone key and speak into the microphone. Select one of the suggested words that appear.

### Adding Language Keyboards to SwiftKey for Pantech

Go to **Apps** > **Settings** > **Language & input**, then tap the equalizer icon ⚙ next to **SwiftKey for Pantech**. Tap **Languages & layouts** and select a language to add it.

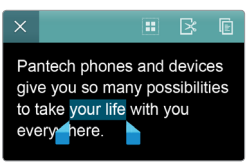
In Starter mode: **Apps** > **Settings** > **System** > **Language & input**

### Changing Language Keyboards on SwiftKey for Pantech

Tap and hold the space key, and slide it left or right.

### Copying and Pasting

Tap and hold over text, drag the opening marker ◢ or the closing marker ◣ to the left and right or up and down to select more or less text, and then tap the copy icon ⧉ or the cut icon ✂.




To paste the text into a text input field, tap and hold at the place where it will be inserted until **PASTE** appears, then tap it.

# Internet

## Browser

Browser is an all-purpose web and internet reader. Use it to search for information on the Internet and read webpages. Many of its functions are fully customizable by configuring its security and other settings.

**Notes**

- An active internet connection is required, either via Wi-Fi or mobile service.
- Data transfer fees may be very high if the Browser downloads significant amounts of information over the regular mobile service.

Tap **Browser** from the Apps screen to open.

In Starter mode: **Apps** > **Browser**

### Viewing a Website

To view a website, enter the website address into the address field at the top of the page, then tap the enter key.

## Browser Interface

### Navigating between Webpages on a Tab

To navigate between pages that have already been viewed on the same tab, tap the Back button ⮌ or tap ⋮ > **Forward.**

### Adjusting Brightness

Tap ⋮ > **Brightness** and adjust the brightness of the Browser screen for easy reading. Check **Automatic brightness** to allow the phone to determine how much light is required.

### Scrolling

Scroll through long webpages by flicking the screen.

Zooming in often magnifies pages so that they are wider than the display screen.

### Standard versus Mobile Websites

Many websites offer a limited or smaller version when they detect a Browser used on a smartphone or mobile device. Sometimes, the simpler versions of these websites have reduced functionality. For example, simplified sites often make it more difficult to enter information into forms or use interactive services.

To see the regular version of the website, tap ⋮ > **Request desktop site**, and the normal version appears, if it is available.

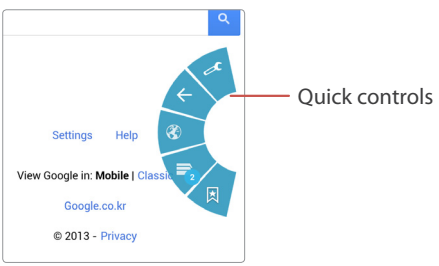
### Full Screen Mode

Full screen mode allows more of a webpage to be visible on one screen.

Tap ⋮ > **Settings** > **Labs**.

- **Quick controls**: This hides the Browser's status bar.
- **Fullscreen**: This hides the smartphone's status bar
- **WebGL**: This enables web graphics library.

When the **Quick controls** option is on, to access the screen's controls, hold a finger or thumb over the left or right screen edge with a very slight outward-inward motion. The regular menu options appear as icons in a hemispherical menu. Slide the finger to the desired item.



# Viewing Webpages

### The Homepage

Tap ⋮ > **Homepage** to return to the Browser's homepage.

To set an open website as the Browser's homepage, tap ⋮ > **Settings** > **General** > **Set new tab homepage** > **Current page**.

### Opening New Tabs

Tap the plus icon ⊕ on the top of the screen. A new page tab opens.

### Switching Between Multiple Pages

The Browser can maintain many open webpages at the same time, stored on different tabs. Tapping the tabs at the top of the Browser switches between them.

When several pages are open in different tabs, tap ⋮ > **Tab management** to view a preview of all of the available tabs and to choose between them.

### Viewing Webpages while Incognito

Any pages viewed incognito are not preserved in the Browser's history and behind-the-scenes identifiers like cookies are deleted after the session closes. Only downloaded files and bookmarks remain.

Tap ⋮ > **New incognito tab** to browse without saving any search or browsing history.

### Refreshing Webpages

Many webpages have live material that must be refreshed. Refresh webpages by tapping the refresh icon ↻ beside the webpage address at the top of the Browser.

### Halting Page Loading

Stopping page loading is useful when a link has been selected accidentally, when a page has too much information to load. To stop loading, tap the × icon beside the address at the top of the Browser.

### Searching the Web Using Google

Enter search criteria into the address field and tap the enter. Tap ⋮ > **Settings** > **Advanced** > **Set search engine** to change the default search engine.

A Google search page returns search results. Tap any of the search results to open the relevant page. Google search results typically open on a new tab when selected.

For Google Maps and other location services, enable the Browser's location services so the searching webpage can use the smartphone's current location to return accurate results. **Location services** are found under **Settings**.

### Searching by Voice

Tap the address field, tap 🎤, speak search criteria, and then select one of the suggested words that appear.

### Searching Within a Webpage

To search for specific text on a webpage, Tap ⋮ > **Find on page** and enter words into the search field. Any matching words are highlighted on the page.

Tap the up icon ^ or down icon v to move to the previous or next matching word, and tap the close icon × when finished.

### Saving Webpages

To save a webpage for later off-line viewing, tap ⋮ > **Save for offline reading**. To view saved pages, tap ⋮ > **Bookmarks**, tap the **Saved pages** tab, then select a webpage.

### Sharing Webpages

To share a webpage with contacts, tap ⋮ > **Share page**, then choose a method to use to send the web address.

# Bookmarks

### Saving Bookmarks

Tap ⋮ > **Save to bookmarks** to save a webpage's address for future reference. Among the options, enter a label, modify the web address if necessary, specify the Google account which will store the bookmark, and choose a bookmark folder to save the bookmark.

> **Note**
> If a bookmark is saved to **Local** instead of a Google account, and if the phone is lost or stolen, the bookmark is not recoverable.

### Opening Bookmarks

To open a bookmarked webpage, tap ☆ or tap ⋮ > **Bookmarks**, then select a bookmark. To keep the current page open but also open the bookmark on a new tab, tap and hold the bookmark and choose **Open in new tab**.

### Managing Bookmarks

Tap ⋮ > **Bookmarks** and tap and hold a bookmark.

- To alter the bookmark, tap **Edit Bookmark** and change its information.
- To create a shortcut for the bookmark on the Home screen for easy access, tap **Add shortcut to home.**
- To send the bookmark, tap **Share link** and choose a sharing method.
- To copy the web address of the bookmark, tap **Copy link URL** and paste it into any other app.
- To delete the bookmark from the list, tap **Delete bookmark**.
- To set the bookmark as the homepage, tap **Set as homepage**.

## Browser Settings

Tap ⋮ > **Settings**.

### General

- **Set new tab homepage**: Select what page appears when a new tab opens.
  - **Current page**: With this selected, the currently-viewed page appears.
  - **Blank page**: With this selected, no page appears.
  - **Default page**: With this selected, the Google search page appears.
  - **Most visited sites**: With this selected, the most-visited page appears.
  - **Other**: Select this and enter a web address to make it appear.
- **Form auto-fill**: Online forms are filled with data already entered with the **Auto-fill text** settings by simply touching the forms. This makes entering often-repeated data into forms much easier.
- **Auto-fill text**: Enter standard text used to auto-fill fields on webpages.

### Privacy & security

- **Clear all data**: Clear all browsing information stored by the browser. This data includes the cache, the history and all other forms of saved web data. To erase not all data but only individual data, use other functions like clear cache, clear history, clear all cookie data, etc.
- **Clear cache**: Empty locally cached content and databases stored while visiting websites.
- **Clear history**: Empty the Browser's internet surfing records.
- **Show security warnings**: Allow the Browser to display security warnings if there is a problem with a site's security, such as outdated or invalid certificates.
- **Accept cookies**: Allow the Browser to accept cookies from websites for your convenience. Be aware that some cookies may be associated with malicious or dangerous code that can breach privacy.
- **Clear all cookie data**: Delete all cookie information stored by web browsing sessions.

- **Remember form data**: Allow the Browser to preserve some data in some form fields for the next time you use that form. This is especially useful when repeatedly filling out online forms.
- **Clear form data**: Delete all stored from data you have entered in forms.
- **Enable location**: Allow websites to request access to your location. This can assist websites to provide service that you may need based on where you are.
- **Clear location access**: Clear the permission you have granted to all websites which requested location access.
- **Remember passwords**: Allow the Browser to remember usernames and passwords for specific sites. You will be asked "Remember, Not now, and Never" on a website before the Browser stores passwords.
- **Clear passwords**: Clear all saved passwords.

**Accessibility**

- **Force enable zoom**: Some websites do not allow zooming in or out. This option overrides the website's limitations.
- **Text scaling**: Move the slider to increase or decrease the text size
- **Zoom on double-tap**: Move the slider to increase or decrease the zoom scale when zooming in or out by a simple double-tap.
- **Minimum font size**: Specify the minimum font size.
- **Inverted rendering**: Activate to decolorize webpages with inverted black and white colors. Move the slider to adjust the Contrast.

**Advanced**

- **Set search engine**: Choose one of the listed search engines to use as the default search engine.
- **Open in background**: When a new tab opens, it stays behind the current tab, not in front.
- **Enable JavaScript**: When JavaScript is enabled, the display of some websites will be improved, but security and performance may suffer.
- **Allow multiple tabs per app**: Set to open the link in a new tab with the first tab in browser leaving as it is when you click a link.

- **Enable plug-ins**: Enable downloading and installation of Browser plug-ins to access some more advanced features of various websites. Some plug-ins may alter Browser behavior and affect performance.
- **Website settings**: Adjust specific settings for various websites.
- **Default zoom**: Set the default zoom level when zooming in and out on webpages.
- **Open pages in overview**: Show overview of newly-opened webpages zooming out.
- **Auto-fit pages**: Newly opened pages are automatically fitted to the screen, regardless of the actual size.
- **Block pop-ups**: Allow the Browser to block pop-ups.
- **Text encoding**: Choose a character encoding system to use for webpages.
- **Reset to default**: Restore all of the Browser's settings to their original values.

**Bandwidth management**

- **Search result preloading**: With this option active, by predicting where the user is likely to go next, the Browser can download page data in the background and open those pages immediately if the user chooses to view them.
- **Web page preloading**: Allow browser to preload linked web pages in the background.
- **Video preloading**: Allow browser to preload video when server allows.
- **Load images**: Allow the Browser to display images if web pages have images. With this option inactive, Browser displays only text without images.

**Labs**

See "Full Screen Mode" on page 70.

# Email

Tap **Email** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Email**

### Setting Up Email Account

Set up an email account when opening Email for the first time. Tap an email service provider and enter an email address and password. Follow on-screen instructions to complete the setup.

To set up another email account, tap ⋮ and choose **Accounts** or **Settings**, then tap ⋮ > **Add account**.

### Removing Email Accounts

Tap ⋮ > **Accounts**, then tap ⋮ > **Remove account(s)**. Select accounts, then tap **Done**.

### Sending Messages

Tap the plus icon ⊕ to compose a message.

- Type email addresses or names to add recipients. To select recipients from the contacts list or recently-used email addresses, tap the figure icon 👤.
- To add more recipients, tap ⋮ > **Add Cc/Bcc**.
- To attach pictures, videos or other files, tap **Attach**.
- To exit without sending the message, tap ⋮ > **Discard**.
- To save the message for future sending, tap ⋮ > **Reservation setting**.
- To leave a reminder about the message on the calendar, tap ⋮ > **Save to calendar on**.
- To give a priority to the message, tap ⋮ > **Set priority**, then select one from among **Priority high**, **Priority normal**, and **Priority low**.
- Finally, tap **Send** to send the message.

### Reading Messages

To switch to another email account, tap **Inbox**. Selecting an email account retrieves new messages. To manually retrieve new messages, tap > **Refresh**. To view another mailbox, tap the briefcase icon.

Select a message to read it.

- To see attached contents, tap **Attachment**.
- To see details about the message, tap the corner symbol next to the subject. To mark the message as a reminder, tap the star symbol next to the sender.
- To reply to the message, tap > **Reply**.
- To reply to all recipients, tap > **Reply all**.
- To forward the message to others, tap > **Forward**.
- To save the message as an event, tap > **Save calendar**.
- To mark the message as a reminder, tap > **Mark as unread**.
- To view the previous or next message, tap the previous icon ‹ or next icon ›.
- To view other messages, tap the list icon.
- To get back to the Inbox, tap the back icon ‹ on the top left corner of the screen.
- To delete the message, tap the delete icon.

### Searching for Messages

Tap > **Search**, then enter a search criteria.

### General Email Settings

Tap ⋮ > **Settings** > **General settings**.

- **Automatic picture view**: Display images embedded in a message immediately.
- **Clear sender cache of "Show pictures"**: Empty the list of senders from whom messages are allowed to display embedded pictures.
- **Ask before deleting**: Set to display the confirmation pop-up window before deleting emails.
- **Message text size**: Select a font size for message text.
- **Clear auto-complete email address cache**: Empty the list of all entered email addresses.

# Gmail

Use Gmail to quickly and directly access the Google mail service.

Tap **Gmail** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Gmail**

Though it appears that it does, Gmail does not actually use separate folders. Instead, it attaches labels to each email. Deleting a message simply removes the Inbox label from the email and adds a Trash label. When the trash is emptied, Gmail purges all emails with the Trash label. Gmail stores all emails until the trash is emptied.

This is important to remember because there are other labels that can attach to emails, such as "**Important**" or "**Sent**".

### Sending Messages

Tap the mail icon to compose a message.

- Type email addresses or names to add recipients.
- To add more recipients, tap > **Add Cc/Bcc**.
- Enter a subject and compose a message.
- To attach pictures or videos, tap > **Attach picture** or **Attach video**.
- To exit without sending the message, tap > **Discard**.
- To save the message for future editing, tap > **Save draft**.
- To read the online help, tap > **Help**.
- To configure Gmail settings, tap > **Settings**.
- To report a bug or suggest an idea on Gmail, tap > **Send feedback**.
- Finally, tap the Send icon to send the message.

### Reading Messages

To switch to another Gmail account, tap **Inbox**. Selecting a Gmail account retrieves new messages. To manually retrieve new messages, tap the refresh icon. To view another mailbox, tap the label icon.

Select a message to read it.

- To view the previous or next message, flick the screen left or right.
- To mark the message as a reminder, tap the star icon next to the sender.
- To reply to the message, tap the reply icon next to the sender.
- To reply to all recipients, tap the menu icon next to the sender and choose **Reply all**. When in landscape view, tap the reply-to-all icon.
- To forward the message to contacts, tap the menu icon next to the sender and choose **Forward**. When in landscape view, tap the forward icon.
- To mark the message as important, tap > **Mark important**.
- To report the message as spam, tap > **Report spam**.
- To hide the message, tap > **Mute**. A muted message, including the entire thread of the message, stays archived until a new message is posted to the thread.
- To archive the message, tap the file cabinet icon. Archived messages are labeled as All Mail.
- To get back to the Inbox, tap the back icon at the top of the screen.
- To delete the message, tap the delete icon.

**Note**

Two menu icons are available on this screen. One is on the bottom right of the screen, and the other is on the upper right. "Next to the sender" in this section refers to the menu icon on the upper part of the screen. For the rest of this section, it refers to the one on the bottom.

### Searching for Messages

In a mailbox, tap the Search icon and enter search criteria.

**General Gmail Settings**

In a mailbox, tap ⋮ > **Settings** > **General settings**.

- **Confirm before deleting**: Prevent a message from being deleted without permission.
- **Confirm before archiving**: Prevent a message from being archived without permission.
- **Confirm before sending**: Prevent a message from being sent without permission.
- **Swiping conversation list**: Archive message in inbox, remove label in custom labels, or deletes in system labels.
- **Reply all**: Replace the reply icon ↩ next to the sender name with the reply-to-all icon ↩↩.
- **Auto-fit messages**: Shrink messages to fit the screen.
- **Auto-advance**: Choose what is displayed after deleting or archiving a message.
  - **Newer**: The next unread message is displayed in sequence.
  - **Older**: The previous read message is displayed in sequence.
  - **Conversation list**: The list of messages is displayed in sequence.
- **Hide checkboxes**: Hide checkboxes in the list of messages to prevent unintended changes to messages.
- **Message actions**: Choose how to display message action icons, including the reply icon ↩.
  - **Always show**: They are displayed at the top of the screen all the time even when scrolling down a message.
  - **Only show in portrait**: They are displayed only when in portrait direction.
  - **Don't show**: They are displayed at the top of the page as part of a message, so can be scrolled out of sight.

# Talk

Use Talk to chat with contacts via Google Talk.

Tap **Talk** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Talk**

To switch to another Google account, tap the account ID next to the Talk icon and select a Google account.

### Public Profile

Tap the account ID at the top of the friends list to change the availability status, photo or status message.

To insert a photo, tap the figure image.

To change the availability status, tap the text next to the figure image.

To enter a status message, tap below the figure image.

### Adding Friends

Add a friend to the friends list. Tap the figure icon , enter a Gmail address, and then tap **Done**. A chat invitation is sent to the friend. After the friend accepts the invitation, the friend appears in the friends list.

### Chatting with Friends

While chatting, tap the menu icon to use the following actions:

- **End chat**: Select this to quit the chat.
- **Go off the record**: Chat histories are saved to the user's Google account for future reference. Select this to chat off the record.
- **Friend info**: Select this to view the friend information.
- **Add to chat**: Select this to invite a friend to the current chat.
- **Clear chat history**: Select this to delete the chat's history.

To quit all the chats, on the friends list, tap > **End all chats**.

### Searching Friends

Tap the search icon, then enter a friend's name or email address.

### To sign out of Google Talk

You can sign out of Google Talk. For example, if you want to limit Google Talk conversations to your computer. Also, signing out can extend your battery life.

From your Friends list, tap > **Sign out**.

You will no longer receive chat notifications or see others' Google Talk status in other applications, such as Gmail™.

### Help

To read the online help, tap > **Help**.

To see the software information about Talk, tap > **Settings** > **About Talk**.

To report a bug or suggest an idea on Talk, tap > **Send feedback**.

### Talk Settings

Tap > **Settings**, then tap the user's account.

- **Mobile indicator**: With this option on, the user's status is displayed to friends.
- **Away when screen off**: With this option chosen, the user's status changes to away when the screen is locked.
- I**nvitation notifications**: With this option on, invitations from friends are notified.
- **IM notifications**: Choose how to display when an IM arrives.
  - **Open dialog**: With this chosen, chats are immediately begun when an IM arrives.
  - **Show notification**: With this chosen, IMs are simply notified.
- **Notification ringtone**: Select a ringtone for chat notifications.
- **Vibrate**: Choose when chat notifications cause to vibrate.

- **Video chat notifications**: Choose how to display when a video chat invitation arrives.
- **Video chat ringtone**: Select a ringtone for video chat notifications.
- **Vibrate**: Choose when video chat notifications cause to vibrate.
- **Default video effect**: Choose which resolution to use for video chats.
- **Blocked friends**: Select friends to block.
- **Clear search history**: Empty the list of all the search criteria entered.
- **Manage account**: This opens the Settings app's **Accounts & sync** menu.
- **Terms & privacy**: This shows Talk's terms and privacy policy.

# Google+

Google Plus unites many Google services under one comprehensive account. It conveniently marries messaging and social networking.

> **Note**
> Google Plus is an active service which is subject to frequent changes and improvements. This section provides only fundamental concepts and general descriptions.
> For more detailed information, refer to Google's online help.

Tap **Google+** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Google+**

### Navigating within Google Plus

Tap the function icon on the upper left of the screen to open Google Plus' function menu. Tap a function to select it. Tapping the name of the function beside the icon opens up a sub-menu for that function, if one is available.

### The Home Page

The user's Google+ Home page shows posts shared by people who are in the user's circles, including text, pictures, videos, links, location marks, or mood.

### Profile

The user profile functions as the calling card that identifies the user to others. The profile includes the user's image, bio, and more.

### Photos

Users can upload or post photos, or view instantly uploaded or posted photos.

**Communities**

Communities are places for people to get together and talk about the interests they share. It shows suggested communities and allows you to join there.

**Hangouts**

A user can do video chat with up to 10 people simultaneously using this function.

**Events**

Users can create and manage events.

**Messenger**

Google Messenger functions as an independent internet chatting platform. Text or chat with Google users anywhere else in the world.

**Local**

Users find places or views suggested places by categories.

**Apps**

Apps functions shows all applications that you signed in with Google +.

**Search**

Users can search for posts.

# Media Center

## Camera

Camera can take both photographs and video.

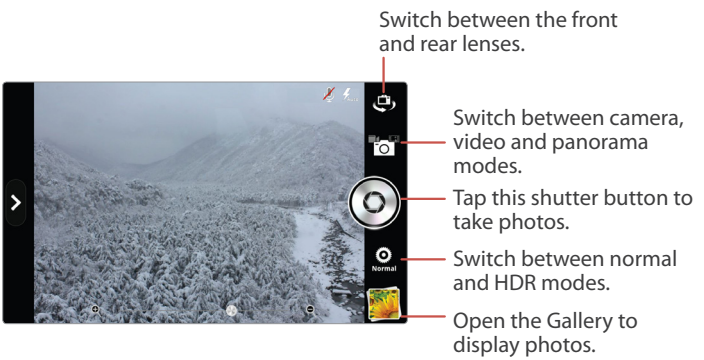
Tap the **Camera** from the Apps screen to open.

In Starter mode: **Apps** > **Camera**

While the camera functions are very similar to those found on point-and-shoot cameras, many more advanced options are available to help create better images. Note that the options for the still and video camera are very similar, but there are some differences. Most of these differences are intuitive. For example, it is impossible to record sound on a still image, so the record option is not available for pictures.

The actual storage space taken up by still images and video varies by the resolution of the images and by the length and quality of the video.

### Taking Photos


Switch between the front and rear lenses.
Switch between camera, video and panorama modes.
Tap this shutter button to take photos.
Normal
Switch between normal and HDR modes.
Open the Gallery to display photos.

Select any options, if necessary. Focus on the object by tapping the screen, and tap the shutter button. The picture is automatically saved in the Camera folder.

### Zooming In and Out

Use the slider to zoom in and out. Spread and pinch gestures are also available to zoom in and out.

### Front and Rear Camera

By default, the camera uses the rear lens. To switch between the front and rear camera lens, tap the lens switch icon .

### High Dynamic Range Pictures

The HDR format combines photos taken at different exposures into one optimal photo by enhancing multiple exposure control and compensating for backlight.

Switch to HDR mode by tapping **Normal** . It turns to **HDR** .

### Camera Options

Several different kinds of camera options are available. Tap  > **Options**.

- **Exposure**: The options range from -4 to +4. Select one of them. Use higher values in darker situations.
- **Timer**: The options range from Off to 10 sec. Select one of them. After the specified time elapses, the camera automatically takes the picture.
- **Flash**: Choose one from among **Auto**, **On**, and **Off**.
- **Resolution**: The options range from 0.3M(640x480) to 8M(3264x2448). Select one of them. Higher resolutions result in larger file sizes, which take up more memory and reduce the total number of pictures that can be stored.
- **White Balance**: This is designed for specific lighting situations. Choose one from among **Auto**, **Daylight**, **Cloudy**, **Fluorescent**, and **Tungsten**.

### Instant Pictures

Tap ⊙ > **Mode** > **Instant Film**. Tap the shutter button to take a picture. The picture appears in several seconds. Type a memo for the picture, adjust the font if necessary, and then tap **Save**.

### Division Shots

Tap ⊙ > **Mode** > **Division**. Tapping the shutter button takes four shots in sequence. The photos are combined into one, divided horizontally and vertically.

### Color Effects

To apply a color effect to the photo, tap ⊙ > **Effects** > **Color Effect**, then choose one from among **None**, **Grayscale**, **Sepia**, and **Aqua**.

### Art Filter

To apply an art filter to the photo, tap ⊙ > **Effects** > **Art Filter**, then choose one from among **None**, **Candy**, **Cartoon**, **Classic**, **Toy**, and **Vignette**.

### Shortcuts

To create a shortcut to any of the options, tap ⊙ and tap and hold an option. When it changes color to orange, drag it to one of the shortcut slots.

To remove a shortcut, tap and hold a shortcut, drag it out of place until the ⊗ symbol appears, and then release it.

### Camera Settings

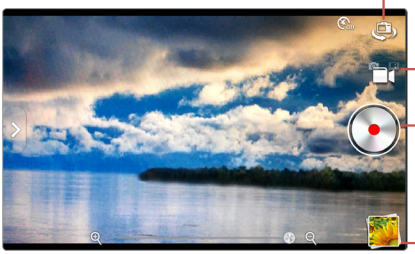
Tap > **Settings**. Tap the box to toggle between options.

- **Review Screen**: The options range from Off to 5 sec. If this is set to anything other than off, the picture is displayed on the screen for the specified length of time once it is taken.
- **Photometry**: Light is measured either **Wide** or **Center**. Center measures light only in the middle of the image, and Wide averages it over the entire image. Use Center for well-lit objects against a brighter or darker background.
- **Voice Recognition**: Choose between **On** and **Off**. Users can control the camera using voice commands.
- **Geotag**: Choose between **On** and **Off**. When this is activated, geolocation information attaches to the image file.
- **Shutter Sound**: Choose between **On** and **Off**. The shutter makes a click sound or is silent.
- **Grid**: Choose between **On** and **Off**. Activating this setting displays a grid on the screen.
- **Save Location**: Choose the internal memory or the memory card and select a folder to which pictures will be saved.

### Panoramic Pictures

To create a wide, panoramic picture, switch to panorama mode by tapping the camera mode icon and selecting . Tap the shutter button, then move the camera horizontally to the right or left. As the camera takes shots, the bar on the bottom of the screen indicates the progress.

# Taking Videos


Switch between the front and rear lenses.
Switch between camera, video and panorama modes.
Tap this shutter button to begin recording.
Open the Gallery to display photos.

The video camera operates using almost the same options as the camera. However, some options are unavailable, and there are additional options available.

Tap the camera mode icon and select to switch to video mode. Tap the shutter button to begin recording, and tap it again to stop recording.

### Video Options

Several different kinds of options are available. Tap > **Options**.

- **Exposure**: The options range from -4 to +4. Select one of them. Use higher values in darker situations.
- **Time Lapse**: The options range from Off to 5 sec. Select one of them. This records a video at the specified intervals.
- **Flash**: Choose between **On** and **Off**.
- **Focus Mode**: Choose between **Auto** and **Touch** to set a focus mode.
- **Resolution**: The options range from MMS(320x240) to FHD(1920x1080). Select one of them. Higher resolutions result in larger file sizes, which take up more memory and reduce the total number of videos that can be stored.
- **White Balance**: This is designed for specific lighting situations. Choose one from among **Auto**, **Daylight**, **Cloudy**, **Fluorescent**, and **Tungsten**.

### Video Effects

Tap > **Effects**.

- **Color Effect**: To apply a color effect to the video, choose one from among **None**, **Grayscale**, **Sepia**, and **Aqua**.
- **Time Lapse Effect**: To make a time-lapse video, select **Tilt-shift**. Otherwise, select **None**.
- **Face Effect**: To apply a face effect to the video, choose one from among **None**, **Squeeze**, **Big Eyes**, **Small Eyes**, **Big Mouth**, **Small Mouth**, and **Big Nose**.
- **Background**: To apply a background effect to the video, choose one from among **None**, **Sunset, Disco**, and **Custom**.

### Video Settings

Tap > **Settings**. Tap the box to toggle between options.

- **Review Screen**: The options range from Off to 5 sec. If this is set to anything other than off, the video is displayed on the screen for the specified length of time once it is taken.
- **Voice Rec.**: Choose between **On** and **Off**. Either activate or deactivate sound recording while taking video.
- **Geotag**: Choose between **On** and **Off**. When this is activated, geolocation information attaches to the video file.
- **Shutter Sound**: Choose between **On** and **Off**. The shutter makes a click sound or is silent.
- **Grid**: Choose between **On** and **Off**. With this enabled, a grid is displayed on the screen.
- **Save Location**: Choose the internal memory or the memory card and select a folder to which pictures will be saved.

### Time-Lapse Videos

Time-lapse videos condense the filming period to make it seem as if people and objects are moving faster.

Tap > **Options** > **Time Lapse** and set an interval. To produce a video with extremely limited depth of field, tap > **Effects** > **Time Lapse Effect** > **Tilt-shift**. In a video created with these two options, people moving with surreal speed also look smaller.

### Capturing a Frame

Tap the capture icon to capture a frame while taking video.

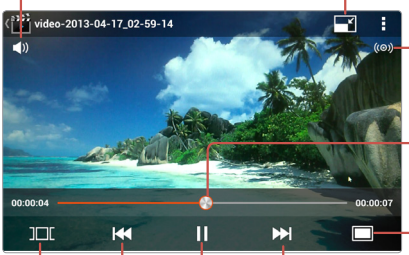
# Videos

Tap **Videos** from the Apps screen to open.

In Starter mode: **Apps** > **Media** > **Videos**

## Playing Videos

Tap a video to watch it. To watch several videos in sequence, tap ⋮ > **Play selected items**, select a number of videos, and then tap the play icon ▶.




Adjust the volume.

Activates a mini video screen.

Activate 3D surround sound effect when a headset is connected.

Drag to scan forwards or backwards within a video.

Change the display mode.

Skip to the next video. Tap and hold to scan forwards.

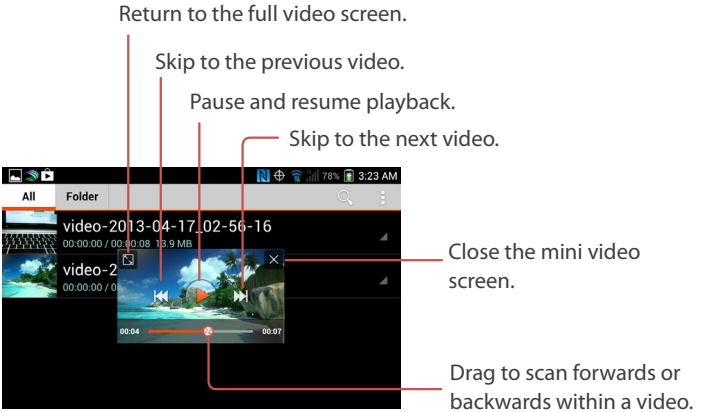
Pause and resume playback.

Skip to the previous video. Tap and hold to scan backwards.

Select a scene to jump to it.

Tap the pause icon ❚❚ to pause playing. This icon alternates with the play icon ▶, so tap it again to resume playback.

### Activating the mini video screen


Return to the full video screen.
Skip to the previous video.
Pause and resume playback.
Skip to the next video.
All
Folder
video-2013-04-17_02-56-16
Close the mini video screen.
Drag to scan forwards or backwards within a video.

### Scanning

To scan the currently playing video, use one of the following methods:

- Tap and hold the forward icon ⏭ to scan forwards within a video.
- Tap and hold the back icon ⏮ to scan backwards within a video.
- Tap on the progress bar and drag it to the left or right to scan backwards or forwards.

If the video is stopped or paused and resumed at a later time, the Videos app remembers and resumes from the point where playback stopped.

### Skipping

Tap the forward icon ⏭ to move to the next video. Tap the back icon ⏮ to play the previous video.

### Repeating

On the play screen, tap ⋮ > **Settings**.

- Set the Repeat option to **Off** to deactivate.
- Set the Repeat option to **One** to repeat the selected video.
- Set the Repeat option to **All** to repeat all of the selected videos in sequence.

### Changing Display Modes

Tap the display icon to change the display size and aspect ratio.

- ▣ : Full view: Turns the screen to full view.
- ▬ : Magnifies the screen size with the original horizontal or vertical ratio kept.
- ▣ : Original view: Turns the screen to the original view.

### Sorting Videos

On the list screen, tap ⋮ > **Change order** and choose a category. The videos are sorted by the chosen category.

### Captions

If captions are available, tap ⋮ > **Caption settings** and turn on **Caption**. To adjust caption delay time, tap ⋮ > **Caption settings** > **Sync**. Plus and minus icons appear on the right side of the screen. Tap the plus icon ⊕ to to make captions slower by 0.5 second, or tap the minus icon ⊖ to make captions faster by 0.5 second.

# Managing Videos

### Viewing Video Information

On the list screen, tap and hold a video and choose **Properties**.

### Deleting Videos

On the list screen, tap and hold a video and choose **Delete**. To delete multiple videos, tap > **Delete**, select videos to delete, and then tap the delete icon .

### Searching for Videos

On the list screen, tap the search icon and enter search criteria. Select one of the search results to watch it.

### Sharing Videos

To share videos with contacts, use one of the following methods:

- On the list screen, tap and hold a video and choose **Share**.
- To send multiple videos, tap > **Share** on the list screen, select videos to share, and then tap the share icon .
- On the play screen, tap > **Share**.

# Gallery

Gallery keeps a record of images and videos taken by the smartphone, as well as any image or video files loaded onto the phone's memory and memory card.

Tap **Gallery** from the Apps screen to open.

In Starter mode: **Apps** > **Media** > **Gallery**

## Viewing Pictures

Select an album, then select a picture to view it. Swipe the screen to the left or right to see other pictures.
The action icons, disappear after a few seconds for a better viewing experience. Touch the screen to get them back.

### Sorting Pictures

Use one of the following methods:

- On a group list, tap the drop-down list on the top left of the screen and choose a category.
- On a pictures list, tap ⋮ > **Group by** and choose a category.

The pictures are sorted by the chosen category.

### Slideshow

Use one of the following methods:

- On a pictures list, tap the slideshow icon ⊙.
- When a picture is open, tap ⋮ > **Slideshow**.

To stop the slideshow, tap anywhere on the screen.

### Cropping Pictures

Tap ⋮ > **Crop** to cut out elements from the image. Move or resize the frame to determine the area to crop out, then tap **OK**.

### Viewing Picture Information

Tap ⋮ > **Details** to view the relevant information about the picture. This will show how large or small the file is, which can be important if the file is being sent via email or over the Internet.

### Switching to and from the Camera

On a group list sorted by a category, tap the camera icon at the top of the screen to switch to the Camera app. To view recently-taken photos from the Camera screen, tap the image preview.

## Managing Pictures

### Deleting Pictures

Use one of the following methods:

- To delete one or more albums, tap and hold an album or tap ⋮ > **Select album**, tap albums to select, and then tap the delete icon 🗑.
- To delete one or more pictures in an album, tap and hold a picture or tap ⋮ > **Select item**, tap pictures to select, and then tap the delete icon 🗑.
- When a picture is open, tap the delete icon 🗑.

### Sharing Pictures

Picture files can be shared with contacts via Email, Messaging, and more. Use one of the following methods:

- To share one or more albums, tap and hold an album or tap > **Select album**, tap albums to select more, and then tap the share icon .
- To share one or more pictures in an album, tap and hold a picture or tap > **Select item**, tap pictures to select more, and then tap the share icon .
- When a picture is open, tap the share icon .

## Editing Pictures

Tap > **Edit** to alter images.

Use the back arrow and forward arrow to undo or redo the change. Tap **SAVE** on the upper right of the edit screen to save any desired changes.

### Lighting and Contrast

To change the image's contrast, tap the contrast icon . Choose one of the options and observe the effect. Many options use a slider to control precisely how much the contrast is altered.

### Special effects

To use a special effect, tap **FX** and choose a special effect to alter the image. Several effects can be combined to create interesting new effects.

### Color

To edit the image's color, tap the palette icon . Change the color, hue, tone and saturation of the image. Some effects have a slider for fine-tuning adjustments.

**More Editing Tools**

Tap to open more editing tools for manipulating images.

- **Crop**: Move or resize the frame to crop the image.
- **Red Eye**: Tap individual faces to remove red eyes.
- **Face Glow**: Brighten faces using the slider.
- **Face Tan**: Darken faces using the slider.
- **Straighten**: Make minor adjustments to the image's angle by dragging a finger to the left or right, or up or down on the screen. The image swivels around the center.
- **Rotate**: Rotate the image 90 degrees by dragging a finger around on the screen.
- **Flip**: Flip the image by dragging a finger to left or right, or up or down on the screen.
- **Sharpen**: Make the image more or less coarse by using the slider.

# Music

The Music app is a powerful music file player. It runs in the background, so users can listen to music while performing other tasks on the smartphone.

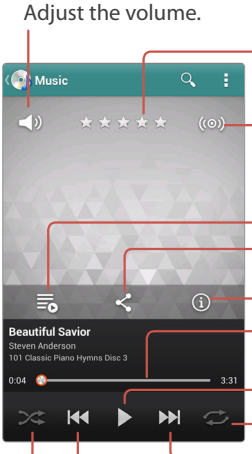
Tap **Music** from the Apps screen to open.

In Starter mode: **Apps** > **Media** > **Music**

## Playing Music

On the list screen, flick the screen left or right to view music files by Songs, Albums, Artists, Genres, Folders, Playlists, Rating, or Most played.

Tap a song in a tab page or list to play it.




Adjust the volume.

Rate this song.

Change the equalizer mode.

View the now playing list.

View the information from YouTube.

View the song properties.

Drag to scan forwards or backwards within the song.

Pause and resume playback.

Change the repeat mode.

Skip to the next song.
Tap and hold to scan forwards.

Skip to the previous song.
Tap and hold to scan backwards.

Turn shuffle on and off.

The play screen has several important features that indicate its current status.

- The current playing time progress bar shows how much time is left for the currently playing song. Tap and drag to move the playing point.
- The repeat icon indicates what repeat option is currently set.
- The shuffle icon indicates whether or not all songs in the album or list are being randomly shuffled.
- Artist name indicates the singer or composer's name, if this information is attached to the file.
- Album title indicates the album the song belongs to, if this information is attached to the file.
- Any album cover or artwork included in the album's directory is displayed when the song is playing.
- Star icons ★ indicate the rating given to the song by the user.

Tap the pause icon ▮▮ to pause playing. This icon alternates with the play icon ▶, so tapping it again resumes playing.

To view the currently playing list, tap the artwork and tap the list icon that appears on the left lower of the artwork.

To view the music files provided by Youtube, tap the artwork and tap the share icon that appears on the center lower of the artwork.

To view the music file information, tap the artwork and tap the share icon ⓘ that appears on the right lower of the artwork.

### Skipping

To move to the previous or next song, use one of the following methods:

- Tap the forward icon ⏭ to move to the next song. Tap the back icon ⏮ to restart the currently playing song. Tap it twice quickly to move to the previous song.
- Flick the album cover to the left or right.
- A sweeping action can also be used to skip to the previous or next song. See "Sweeping" on page 24 for details.

### Scanning

To scan the currently playing song, use one of the following methods:

- Tap and hold the forward icon ⏭ to scan forwards.
- Tap and hold the back icon ⏮ to scan backwards.
- Tap on the progress bar and drag it to the left or right to scan backwards or forwards within the song.

### Randomly Playing

Tap the shuffle icon ⤮ to randomly shuffle songs. It is active when the icon is white.

### Repeating

Tap the repeat icon ⟲ to change repeat mode.

- ⟲ : Repeat all songs in the album or list when the icon is white. The repeat function is off when the icon is darkened.
- ⟲₁ : Repeat only the current song. It is active when the icon is white.

### Playing Music in Background

Tapping the Home button ⌂ does not stop the music that is currently playing. The music continues to play in background. Use the Notifications panel to control music playback.

# Managing Songs

### Adding Songs to Playlists

Use one of the following methods:

- On the list screen, tap and hold a song, choose **Add to playlist**, and then select a playlist for the song.
- On the play screen, tap ⋮ > **Add to playlist**, and select a playlist for the song.

### Using Songs as Ringtones

Songs can be used as ringtones. Use one of the following methods:

- On the list screen, tap and hold a song and choose **Set as ringtone**.
- On the play screen, tap ⋮ > **Set as ringtone**.

### Viewing Song Information

Use one of the following methods:

- On the list screen, tap and hold a song and choose **Properties**.
- On the play screen, tap the artwork and tap the info icon ⓘ that appears on the lower of the artwork.

### Deleting Songs

On the list screen, tap and hold a song and choose **Delete**. To delete multiple songs, tap ⋮ > **Delete**, select songs to delete, and then tap the delete icon 🗑.

### Searching for Music

On the list screen, tap ⋮ > **Search** and enter search criteria such as song, artist, or album. Select one of the search results to listen to it.

It is also possible to search for content related to the currently playing song. On the play screen, tap the search icon 🔍 and choose a target app. For example, choose YouTube, and the YouTube app launches, showing search results.

### Sharing Songs

Use one of the following methods:

- On the list screen, tap and hold a song, choose **Send**, and then choose a method to use to send the music file (such as Messaging, Email, etc).
- On the play screen, tap the artwork, and tap the share icon ⋖ that appears on the lower of the artwork. A list appears, showing YouTube videos related to the song. Select an entry, and choose a method to use to send the YouTube video link.

## Playlists

Playlists group songs together for easy playback. Any song can be added to playlists to create themed categories. On the list screen, go to the **Playlists** tab.

### Creating Playlists

Tap ⋮ > **New playlist**, and enter a playlist name to identify it. Select songs, navigating through the list of songs. To select from another category, tap the current category icon ♫ and select a different category.

### Playing Songs in a Playlist

Tap and hold a playlist, choose **Play**.

### Adding Songs to Playlist

Tap and hold a playlist, choose **Add tracks**, select songs to add, then tap **Done**.

### Removing Songs from Playlists

Tap and hold a playlist, choose **Remove tracks**, select songs to remove, and then tap the delete icon 🗑.

### Deleting Playlists

Tap and hold a playlist and choose **Delete**.

### Renaming Playlists

Tap and hold a playlist, choose **Rename**, and then enter a new name.

### Playing a Song from Playlists

Tap a song from a playlist. Or tap ▶ on the bottom of the playlist to play the song that played previously.

## Sleep Mode

Sleep mode stops playing after a specific period.

When a song is playing, tap ⋮ > **Sleep mode**. Select a time period for the playback to continue. Once this period lapses, playback stops.

## Music Settings

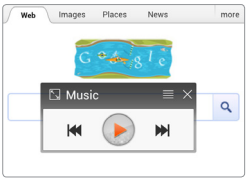
Tap ⋮ > **Settings**.

- **Sound effect**: Each of the sound effects changes the playback of music in some manner.
  - **Equalizer**: This effect balances the frequencies of different sounds in music. Use the slider to make adjustments, and select a specific enhancement feature.
  - **Bass Boost**: Amplify the lower frequencies in music.
  - **Virtualizer**: This effect makes it appear as if the music is being played live or in-concert. This effect requires an earphone to function.
  - **Preset Reverb**: This effect adjusts the audio signal so that it resembles sound reverberating or echoing through a room. Select a size of room space for the effect.
- **Tab category**: Select tab categories to display. Checkmarks indicate which tabs appear. Fine-tune sorting through the music library by removing unused tabs.
- **Auto plug-n-play**: When this feature is turned on, music automatically resumes playing when a wired headset is inserted into the phone.
- **Data network connection notification**: With notification turned on, the user is notified when the smartphone is connected to the internet via mobile service and not Wi-Fi.

## Mini App

Use the mini app feature to force the simplified Music app to stay in front of all the other apps.

Tap > **Music** to launch the simplified Music app.




Tapping the list icon displays the list of the currently playing songs.

# Play Music

Play Music provides an alternative to the Music app for playing music files.

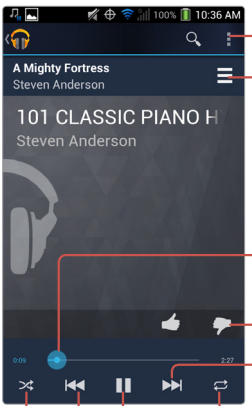
> **Note**
> Only one music application can run at a time. Either Music or Play Music can run, but not both simultaneously.

Tap **Play Music** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Play Music**

## Playing Music

From My Library, swipe the screen left or right to view music files by genres, artists, albums, or songs.




Equalizer, Clear queue, Save queue, Settings, and Help are shown.

See the song list.

Drag to scan forwards or backwards within a song.

Marks the preference of the music.

Skip to the next song.

Change the repeat mode.
It is active when the icon is orange.

Pause and resume playback.

Skip to the previous song.

Turn shuffle on and off.
It is active when the icon is orange.

Tap the pause icon ▮▮ to pause playing. This icon alternates with the play icon ▶, so tapping it again resumes playing.

### Searching for Music

Tap the search icon 🔍 and enter search criteria, such as song, artist, or album. Select one of the search results to listen to it.

# YouTube

Use the YouTube app to watch videos from the YouTube website.

A Google account allows YouTube to tailor video selections to users' unique tastes, and to allow users to upload or comment on videos.

Tap **YouTube** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **YouTube**

### Searching Videos

Tap the search icon on the upper right and enter search criteria. Select one of the search results to watch it.

# IMDb

The Internet Movie Database is one of the most comprehensive collections of information and references on movies compiled. IMDb provides instant access to this database in an easy-to-use format.

Tap **IMDb** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **IMDb**

Tap **Movies** or **TV** at the top of the screen to see the most-viewed items in each category.

Tap and select **Celebs**, **Showtimes**, **Rating History**, **Sign In**, **Settings**, **News**, **History**, and **About** to enjoy and set for the variety contents.

### Searching

To find a movie, director, actor or actress, tap the search icon and enter search criteria. Tap one entry from the list of potential matches that is returned.

# Menu Functions

## Amazon

Amazon is a comprehensive, multi-purpose online shopping service. Originally designed to sell books, it now sells virtually any object purchasable online. The Amazon app is identical in function to the Amazon website, and can be used interchangeably.

> **Note**
> An Amazon account and an active internet connection are required to use this app.

Tap **Amazon** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Amazon**

### Searching for Products

Tap the search field on the upper part of the Amazon home screen.

Three methods are available to search for a product, as follows:

- Input a product to search for in the search box.
- Tap **Scan It** to search a product with a scanned barcode.
- Tap **Snap It** to search a product with a snapped photo.

### Purchasing Products

Tapping an entry from a products list shows details about it. Scroll down to the bottom, and do one of the following:

- Tap **Buy Now** to buy the item immediately. Follow instructions to complete the purchase process.
- Tap **Add to Cart** to add the item to the user's cart for later purchase.
- Tap **Add to Wish List** to add the item to the user's wish list for later purchase. To go to the cart page from any page, tap ⋮ > **Wish List**.

**Cart**

Tap cart icon from any page to view the items contained in the user's cart.

To place an order for all the items, tap **Checkout** on the top right of the page.

# Amazon Kindle

Use Amazon Kindle to purchase ebooks from Amazon and to read them on the smartphone.

> **Note**
> An Amazon account and an active internet connection are required to use Amazon Kindle.

Tap **Amazon Kindle** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Amazon Kindle**

When first launched, either sign into an account, or go through the process to create an account.

Amazon Kindle has four tabs:

- **Home** shows recommended books as well as books downloaded onto the smartphone. Purchased books are displayed with their covers in the center of the Home tab. At the bottom of the Home tab is a display of recommended and best selling books. Flick them left and right to see more. Tapping one opens it in the Store page for purchase.
- **On Device** shows books downloaded onto the smartphone.
- **Archive** shows books purchased but not downloaded onto the smartphone. Tapping an entry begins to download the book. When downloading is complete, it appears on the On Device tab.
- **Store** opens the Amazon Kindle bookstore for purchasing new books and publications.

## Purchasing Books

Tap the Store tab to open the Kindle bookstore. Enter search criteria into the search field on the upper part of the page to find a particular book, or tap a category and sub-category to browse entries.

On any open entry, tap **Buy Now with 1-Click** to purchase a selection. Tap **Try a Sample** to download part of the book.

Some publications, such as magazines or newspapers, offer subscriptions. Two options usually appear for these, either **Subscribe Now with 1-Click** or **Buy Now with 1-Click**. Buy Now purchases one edition, while Subscribe Now delivers new editions to the Kindle account on a regular basis, and charges a bulk price, which is generally lower per issue than buying a single issue, but requires advance payment.

Accounts must have credit card information already associated with them to finalize purchases. If no credit card information is present, users must enter it when requested. This information can be kept for future reference and associated with the account.

#### Free Books

Go to the **Store** page. Tap the **Free Popular Classics** category to see a wide selection of free ebooks. These do not require an account associated with a credit card.

## Reading Books

To read a book, tap a book on either the Home tab or the On Device tab.

While reading, use available actions described in the following sub-sections.

#### Navigating through Pages

Flick the screen left or right to turn pages. Touching the screen displays the progress slider. Drag the slider to the left or right to jump to other pages.

To jump to a specific page, tap ⋮ > **Go To** and choose one of the following options:

- **Cover**: Go to the front cover.
- **Table of Contents**: Go to the table of contents, if existing.
- **Beginning**: Go to the first page of the body text.
- **Page**: Enter a page number to go to it
- **Location**: Virtual page numbers are given to every 128 letters. This enables the user to access the same place on any device. Enter a location number to go it.
- **My Notes & Marks**: This option displays the list of notes, highlights, and bookmarks made to the book. Select one from among them to go to its page.

To go back to the previous page, tap ⋮ > **Back**.

To stop reading and get back to the Home tab, tap ⋮ > **Home**.

**Page Appearance**

Spread and pinch gestures are available to zoom text in and out.

Change the view options for easier reading. Tap ⋮ > **View Options**, and adjust the text size, interline space, margin width, background color, and brightness.

**Annotating Books**

To mark text with highlights, tap and hold a word, select more or less text by dragging the markers, and then choose **Highlight**.

To tag a note on a phrase or sentence, tap and hold a word, select more or less text, choose **Note**, and then type a note.

# Alarm/Clock

Use Alarm/Clock to set an alarm, check the time anywhere in the world, set a timer to countdown, or measure elapsed time for an event.

Tap **Alarm/Clock** from the Apps screen to open.

In Starter mode: **Apps** > **Tools** > **Alarm/Clock**

## Alarm

Active alarms are listed under the **Alarm** tab.

### Adding Alarms

Tap **Add alarm**, set the alarm options listed below, and then tap **Save**.

- Set a time and tap **Set**.
- **Repeat**: Set to repeat the alarm on specific days of the week.
- **Ringtone**: Choose a ringtone if the default ringtone is unacceptable.
- **Vibrate**: Set vibrate to on or off.
- **Label**: Add a name for the alarm, if necessary.

### Changing Alarms

Select an alarm, change its options, and then tap **Save**.

### Deleting Alarms

Tap the delete icon 🗑, select alarms, and then tap the delete icon 🗑.

### Stopping Alarms

Tap **Snooze** to pause the alarm and resume after the specified interval or tap **Dismiss** to stop the alarm.

### Alarm Settings

Tap the settings icon ⚙.

- **Alarm in silent**: With this option active, alarms are sounded even when the phone is in silent mode.
- **Alarm volume**: Adjust the alarm volume
- **Snooze duration**: Set how long an alarm pauses before it resumes.
- **Auto silence**: Set how long an alarm sounds before it stops.
- **Volume buttons**: Determine whether to snooze or dismiss alarms using the Volume keys. When you do not use the Volume keys for this purpose, choose **None**.
- **Set default ringtone**: Select a ringtone to set it as the default ringtone for alarms.

## World Time

The **World Time** tab displays the current time in different time zones. Daylight savings time is automatically taken into account.

### Adding Cities

To add an entry from a specific time zone, tap **Add new city** and select a city from the list. If the required city is not listed, choose a nearby city in the same time zone. To find a specific city, enter the name into the search field.

### Viewing a City's location

Tap a city. The map app launches, showing the city's location.

### Deleting Cities

Tap the delete icon 🗑, select cities, and then tap the delete icon 🗑.

### Rearranging the cities

Tap ☰ of a city item and drag to a desired position.

## Timer

Tap the **Timer** tab.

Tap the clock face to set how long the timer counts down, and tap **Set**.

Tap **Start** to start the countdown, and tap **Pause** to halt it.

When the timer is stopped, either tap **Reset** to start the timer from the original countdown time set, or tap **Continue** to resume the countdown.

## Stopwatch

Tap the **Stopwatch** tab.

Tap **Start** to start the stopwatch, and tap **Stop** to halt it.

To record the point when a specific event occurs, tap **Record** while the stopwatch is running.

When the stopwatch is stopped, either tap **Reset** to clear the stopwatch so that it can start over or, tap **Continue** to resume running.

# Audible

Use Audible to purchase audiobooks from the Audible audiobook store and to listen to them on the smartphone.

> **Note**
> An Audible account and an active internet connection are required to use this app.

Tap **Audible** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Audible**

When first launched, either sign into an account, or go through the process to create an account.

## Purchasing Audiobooks

Tap the cart icon at the top left corner of the screen to open the Audible audiobook store. Enter search criteria into the search field on the upper part of the page to find a particular audiobook, or tap **Categories** at the lower of the page to browse entries.

On any open entry, tap **Buy** to purchase a selection and follow instructions to complete the purchase process.

### Downloading Purchased Audiobooks

After purchasing audiobooks, tap > **My Library** to exit the store. Newly purchased audiobooks are shown in the user library. Tap the download icon on a new entry and tap **Download** to download it to the smartphone.

## Listening to Audiobooks

Tap an audiobook entry to listen to it. Several control actions are available as follows:

- Tap the pause icon to pause playing. This icon alternates with the play icon ▶, so tapping it again resumes playing.

- Drag the progress slider to the left or right to move backwards or forwards.
- Tap the back icon to go back 30 seconds.
- Tap > **Button-Free** to use the more simplified interface. For example, swipe the screen right to go forward 30 seconds.
- To get back to the library, tap > **My Library**.

**Chapters**

An audiobook is usually made up of multiple chapters. To jump to a particular chapter, tap the **Chapters** tab and select a chapter.

**Bookmarks**

Tap the bookmark icon to add a bookmark to the current position.

To jump to a bookmarked position, tap the **Bookmarks** tab and select a bookmark.

To delete a bookmark, tap and hold a bookmark and choose **Delete**.

**Annotating Audiobooks**

To tag a note on the current position, tap the bookmark icon, choose **Add notes**, and then type a note.

To view notes, tap the **Bookmarks** tab. Tapping a note jumps to its annotated position.

To modify a note, tap and hold a note and choose **Edit**.

**Sharing Audiobooks**

To share the information about the currently playing audiobook, tap > **Share** and choose a method to use to send the information.

# Camnote

Camnote is designed to take pictures of handwritten notes, whiteboards, and other flat objects with information written on them.

Tap **Camnote** from the Apps screen to open.

In Starter mode: **Apps** > **Tools** > **Camnote**

## Finger Gestures

The following finger gestures are available for Camnote:

- Use spread and pinch gestures to zoom in and out.
- Tap the particular subject on the screen to focus on it.
- Scrub the screen horizontally, as if moving a slider, to adjust the brightness. Be aware this is only available in Normal scan mode.

## Camnote Settings

Tap **Setting**.

- **Scan mode**: Choose a scan mode. There are two black and white modes, a partial color mode and a full color mode.
- **Save location**: Choose the Phone or the SD in which to save the pictures.
- **Folder name**: Choose a folder in which to save the pictures.

## Taking a Picture

Use the following methods:

- Tap the camera icon to take a picture.
- Tap **Macro** or **Board** to change the framing grid. They alternate each other. Use **Macro** to keep up the text lines written on the subject. Use **Board** to keep the subject to be completely in the frame.
- When in single-shot mode, the picture immediately appears for editing once a shot is taken. To take multiple shots without switching to edit mode, switch to multi-shot mode by tapping **Single**. It alternates with **Multi**.

## Editing a Picture

Edit a picture just taken using the following editing tools:

- **Pen**: Choose a pen type , marker, or highlight and color and tap **OK**. Using your finger, draw on the captured picture.
- **Post-it**: Choose a post-it size and color to attach a note on the picture. Tap the post-it note and drag it to a desired location. Tap the post-it note to enter a memo.
- **Stamp**: Choose a stamp type and size to stick on the picture. Tap the stamp and drag it to a desired location.
- **Text**: Choose a text size, font and color to write on the picture. Tap the text block and drag it to a desired location. Tap the text block to enter a text.
- **Eraser**: Remove alterations made to the picture. Erase drawings by scrubbing over the changes with a finger, or tap the ⊗ symbol that appears on post-it notes, stamps, and text blocks to remove them.
- **Clear**: Remove all alterations made to the picture.
- **Zoom**: Zoom in the picture and drag it to a desired view.

Tap the checkmark ✓ to save the picture with its changes.

To delete without saving, tap the Back button ⮌, and select **No**.

To edit an existing picture, tap **Gallery**, select a folder then a picture, and then tap ⋮ > **Edit.**

## Managing Pictures

### Adding Folders

Tap **Gallery** > **Add folder**, enter a name, choose a folder icon and color, then choose a location for the folder.

### Sorting Pictures

On the list screen, tap ⋮ > **Sort** and choose a category.

### Deleting Pictures

Use one of the following methods:

- On the list screen, tap ⋮ > **Delete**, select pictures to delete, and then tap the delete icon 🗑.
- On the view screen, tap the delete icon 🗑.

### Sharing Pictures

Use one of the following methods:

- On the list screen, tap ⋮ > **Share**, select pictures to share, tap the share icon ⋖, and then choose a method to use to send the pictures.
- On the view screen, tap the share icon ⋖, and then choose a method to use to send the picture.

# Calculator

Use Calculator for simple or complex calculations.

Tap **Calculator** from the Apps screen to open.

In Starter mode: **Apps** > **Tools** > **Calculator**

Tap **C** once to delete a digit. Tap and hold **C** to delete the entire number.

### Scientific Calculator

Rotate the smartphone to landscape orientation to display the scientific calculator.

### Saving Calculations

To save a calculation result, tap **Save**, enter a note for it, and tap **Done**.

### Editing Calculations

Tap **List**, select a calculation to edit, and then tap ⋮ > **Edit**.

### Deleting Calculations

Use one of the following methods:

- Tap **List**, select a calculation to delete, and then tap the delete icon 🗑.
- Tap **List**, tap the delete icon 🗑, select calculations to delete, and then tap the delete icon 🗑.

# Calendar

Calendar keeps track of daily, weekly and monthly events, and produces notifications when event deadlines approach. Calendar events can also be sent to contacts and synced with the user's Google, Exchange, or other calendars.

Tap **Calendar** from the Apps screen to open.

In Starter mode: **Apps** > **Tools** > **Calendar**

Flick the screen left or right to see previous or next dates, weeks, or months. To get back to today's date, tap the calendar icon .

## Managing Events

### Adding Events

Tap a day and tap the plus icon , enter event information, then tap **Done**.

### Viewing and Editing Events

Dates with events are tagged with a colored dot. Tap an event to view more detail. To edit the event, tap the edit icon . To delete the event, tap the delete icon .

### Changing Display Modes

Tap the date on the upper left of the screen, and choose one of the following options:

- **Day** shows the events planned for the given day.
- **Week** shows the events planned over the course of the week.
- **Month** shows the events planned over the course of the entire month
- **Agenda** shows all of the upcoming meetings in a list and provides their dates and times.

### Syncing Events

Tap ⋮ > **Calendar to display** and select an account to sync.

To refresh the calendar, tap ⋮ > **Refresh**.

When you synchronize with Google Plus, the Google Plus events are displayed automatically in the Calendar.

### Searching Events

Tap ⋮ > **Search** and enter search criteria.

## Calendar Settings

Tap ⋮ > **Settings** > **General settings**.

### Calendar View Settings

- **Hide declined events**: When this setting is active, Calendar does not display events that the user has already declined.
- **Show week number**: This option displays how many weeks have already passed over the year. There are 52 weeks in a year.
- **Week starts on**: Choose the day of the week that the display will list first. This is typically either Monday or Sunday.
- **Use home time zone**: When traveling, the home time zone is used to display event times, rather than the time zone in which the smartphone happens to find itself.
- **Display contacts events**: This setting displays the events that are saved in contacts such as birthday, anniversary.
- **Clear search history**: This wipes the calendar search history.

**Reminder settings**

- **Notifications**: Enable this to produce warnings or notices when the upcoming events approach.
- **Sound**: Choose a ringtone for notifications.
- **Vibrate**: Choose when notifications cause the phone to vibrate.
- **Pop-up notification**: Select whether or not a pop-up window appears when a notification is produced.
- **Default reminder time**: Set the default time period to wait for before producing notifications.
- **Quick response**: Edit default response when emailing guests.

# Tasks

Tasks helps you to manage your own tasks just by adding new tasks, setting due dates, or adding notes, and (most satisfyingly) checking them off as you're done. Your task list stays up to date no matter how you access it. It's a simple list that's with you everywhere you go.

Tap **Tasks** from the Apps screen to open.

In Starter mode: **Apps** > **Tools** > **Tasks**

## Creating a task

The plus icon ⊕, and enter task information, then tap **Done**.

- **Accounts**: Select a registered account.
- **Subject**: Input a subject for the task.
- **Priority**: Select priority for the task among **Low**, **Normal**, and **High**.
- **Status**: Select the status for the task between **In progress** and **Complete**.

# Document Viewer

Document Viewer is a multipurpose document reader. It displays documents in various formats, including text, PDF, and Microsoft Office files.

Tap **Document Viewer** from the Apps screen to open.

In Starter mode: **Apps** > **Media** > **Document Viewer**

## Viewing Documents

Once Document Viewer opens, it displays the list of all compatible documents that are stored in the smartphone's various memory storage locations. From the file list, select a document to view it.

Tapping anywhere on the screen displays control icons:

- Tap the previous icon ❮ or the next icon ❯ to move backwards or forwards in the document. To go to a specific page, tap ⋮ > **Go to page** and enter a page number.
- Tap the horizontal icon ⇔ to fit the document to the screen's width, or the vertical icon ⇕ to fit it to the height.
- Tap the magnifier icon 🔍 and drag the zoom slider up or down to zoom in or out.

### Searching for Text

When a document is open, tap ⋮ > **Word search** and enter search criteria. Tap the previous icon ^ or the next icon ⌄ to view the previous or next entry that matches the search criteria.

### Changing the Background Color

When a text file is open, tap ⋮ > **Color setting** and choose black or white.

# Managing Documents

### Filtering Documents

Tap the drop-down list above the file list and select a file extension. The files that have the chosen extension are only displayed.

### Sorting Documents

From the file list, tap ⋮ > **Sort by** and choose a category.

To view the list of folders where documents are stored, tap ⋮ > **View type** and choose **Folder list**.

### Sharing Documents

Use one of the following methods:

- From the file list, tap and hold a file, choose **Share**, then choose a method for sending the file.
- When a document is open, tap ⋮ > **Share**.

### Deleting Documents

Use one of the following methods:

- From the file list, tap ⋮ > **Delete**, select files to delete, and then tap the delete icon 🗑.
- From the file list, tap and hold a file and choose **Delete**.
- When a document is open, tap ⋮ > **Delete**.

# Downloads

Use Downloads to see what files are downloaded through the applications.

Tap **Downloads** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Downloads**

### Sorting Files

To view the file list by date, tap **Sort by date**. To view it by size, tap **Sort by size**.

### Deleting Files

Select files by tapping the checkbox next to a file entry, then tap the delete icon .

### Sharing Files

Select a file by tapping the checkbox next to a file entry, tap the share icon , and then choose a method to use to send the file.

# Maps

Maps provides detailed local maps and navigation services, depending on region.

Tap **Maps** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Maps**

### Searching for Places

Tap the search icon and enter the name or address of the desired place.

### Finding the Current Location

Tap the compass icon. The current location is displayed with a blinking blue pointer.

### Getting Directions

Tap the direction icon and enter the destination's address. Choose car, public transit or on foot and tap **GET DIRECTIONS**.

### Map Layers

Tap the layers icon to use multiple overlay maps, such as traffic, satellite, terrain, and more.

### Launching Location-Based Apps

Tap the drop-down list on the upper left of the screen and choose an app to open it. Tapping the Local icon launches the Local app.

# Play Store

Use Play Store to purchase free or paid apps from the Google Play store.

Tap **Play Store** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Play Store**

### Searching and Purchasing Apps

To find a specific app, tap the search icon and enter search criteria. A list appears, showing relevant apps.

Tap an app to view its details. Tap **INSTALL** on the upper right of the screen to download and install the app, if it is free. If it is charged, tap the price and follow instructions to complete the purchase process.

### Switching Accounts

Several Google accounts can be used in Play Store. To add or switch between them, tap > **Accounts.** Select between any available Google accounts to use. To add a new account, tap **Add account**.

### Updating Installed Apps

Tap > **My apps** to see the list of all apps installed on the smartphone.

An app entry is tagged with **UPDATE** if update is available for it. Update apps using one of the following methods:

- Select an entry and tap **UPDATE**.

### Viewing App Information

Tap > **My apps** and tap an app to view its information, including update details and user ratings and reviews.

### Removing Installed Apps

Tap > **My Apps**, select an app, and then tap **UNINSTALL** on the upper right of the screen.

# Google

Google Now is more than about searching. Google Now displays the following information: weather, events, research topics, traffic, travel, flights, public transit, places, sports, etc. The cards pops up when they are most likely to be useful and relevant based on the current time and your location. This function also supports searching not only the Web, but also apps and their contents on the smartphone, including People and Music apps.

Tap **Google** from the Apps screen to open.

In Starter mode: **Apps** > **My apps** > **Google**

### Using Google Now

Before starting Google Now, it needs user's consent. Then, you'll immediately be taken to the Google Now screen. Once you've enabled Google Now, you can access the cards by tapping a card. Tap ⋮ and tap an item to use Google Now cards.

- Tap **Refresh** to refresh cards.
- Tap **Sample cards** to view sample cards.
- Tap **Search with camera** to search a captured and described photo.
- Tap **Settings** to set items for Google Now.
- Tap **Help** to get supports on the Google web.
- Tap **Send feedback** to send feedback to Google.

### Searching the Smartphone

Tap the search field, enter search criteria, and then select one of the suggested words that appear. If no results are returned from the apps, the Browser appears, displaying search results.

To search by voice, tap the search field, tap 🎤, speak search criteria, and then select one of the suggested words that appear.

### Google Search Widget

Use the Google Search widget on the Home screen for faster and easier searches.

# Smart Voice

Use Smart Voice to perform a variety of functions of the smartphone using voice commands, including calling, sending messages, opening apps and searching the web.

Tap **Smart Voice** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Smart Voice**

> **Note**
> This app is available only when the smartphone is connected to the Internet via a Wi-Fi or mobile network.

Tap the microphone icon, then speak a command similar to the following examples:

- "Dial Michael mobile"
- "Tell Jane I'm almost there."
- "What day is it today?"
- "How will be the weather today?"
- "Open Camera"
- "Launch Gallery"
- "Play El Condor Pasa"

If the command is not recognized, the Browser appears and searches the web for it.

# Task Manager

Use Task Manager to check system status or close running apps.

Tap **Task Manager** from the Apps screen to open.

In Starter mode: **Apps** > **All apps** > **Task Manager**

### Viewing Running Apps

Tap the drop-down list on the top of the screen and choose **Running** to view the list of currently running apps.

Tapping **End** beside an app entry closes the app. To close all running apps, tap **Total X apps End All** at the lower of the screen.

To protect an app from being closed, select an app and turn on **Protection ended**. The End button is not tagged on protected apps. To kill protected apps, select an app from the running apps list and tap **Shutdown**.

To sort apps, tap the view type icon and select a sort option.

### Viewing System Status

Tap the drop-down list and choose **Systems**. System resources usage is displayed, including the CPU, RAM, internal memory, SD card, and Network.

# Voice Recorder

Use Voice Recorder to make audio recordings.

Tap **Voice Recorder** from the Apps screen to open.

In Starter mode: **Apps** > **Tools** > **Voice Recorder**

> **Note**
> Sound recordings are created using whichever microphone is currently in use. If a microphone-enabled headset is active, the microphone in the headset is used to make the recording. If there is no headset, the smartphone's default microphone is used.

### Creating Voice Recordings

Tap the record icon to begin recording. Tap the stop icon when finished. The play screen appears once recording is complete. Tap the play icon to play the recording back.

### Changing the Default Storage

Tap the save location icon and choose either the internal media storage or the SD card to use it as the default storage.

### Listening to Recordings

Tap the list icon and select a recording to play it.

### Renaming Recordings

Tap and hold a recording, choose **Rename**, then enter a new name. It is a good idea to rename files so that their contents are more easily identifiable. This is especially true when setting recordings as ringtones or when sending them to contacts.

### Deleting Recordings

Use one of the following methods:

- Tap and hold a recording and choose **Delete**.
- To delete several recordings, tap ⋮ > **Delete**, select recordings to delete, and then tap the delete icon 🗑.

### Sharing Recordings

Tap and hold a recording, choose **Send**, then choose a method for sending the recording.

### Setting Recordings as Ringtones

Tap and hold a recording and choose **Set as Ringtone**. The recording appears in the list of ringtones.

# Weather

Use Weather to get weather forecast.

Tap **Weather** from the Apps screen to open.
In Starter mode: **Apps** > **All apps** > **Weather**

### Adding Cities

Tap ⊕, enter a city name , tap 🔍, and choose from the list that appears.
To add the current location to the list, tap the plus icon ⊕ and tap **Add my location to city list**.

### Viewing Weather Forecast

To update the current weather conditions, use one of the following methods:

- Tap the update icon ↻ on the top of the screen for all cities.
- Tap and hold a city and choose **Update**.

Tap a city, and a 4-day weather forecast for that city appears. To update the forecast, tap the update icon ↻.

### Deleting Cities

- On the city list, use one of the following methods:
  Tap and hold a city and choose **Delete**.
  Tap ⋮ > **Delete**, select cities to delete, and then tap the delete icon 🗑.
- Select a city, then tap the delete icon 🗑.

### Weather Settings

Tap ⋮ > **Settings**.

- **Temperature scale**: Choose **Fahrenheit** or **Celsius**.
- **Auto update**: With this option active, weather information is automatically updated.
- **Update interval**: Set an interval for automatic update.
- **Current location**: With this option active, the current location is displayed in the city list.

# Settings

Use Settings to configure the smartphone and add accounts.

Open **Settings** from the Apps screen or, alternatively, tap ⋮ > **Settings** from the Home screen**.**

In Starter mode: **Apps** > **Settings** > **System**

> **Note**
> In Starter mode, every setting option can be accessed through the **System** menu.

## Mode change

- **Starter mode**: Use the simplified interface. This is appropriate for users unfamiliar with smartphone interfaces.
- **Standard mode**: Use the standard Android interface.

## Personalization

### Screen lock

- **Select screen lock**: Choose a screen-lock type. The available options vary according to the interface mode chosen, that is, Standard mode or Starter mode.
  - **None**: The smartphone unlocks itself immediately when pressing the Power or Volume keys.
  - **Slide**: Unlock the smartphone or launch the Camera or Google.
  - **Visual lock**: Unlock the smartphone or launch one of designated apps.
  - **Modern lock**: Unlock the smartphone or launch one of designated apps.

- **Simple lock**: Unlock the smartphone or launch one of designated apps.The lock option is available only in Starter mode.
- **Face Unlock**: Unlock the smartphone by letting the smartphone recognize the user's face.
- **Pattern**: Draw a pattern to unlock the smartphone.
- **PIN**: Enter a PIN to unlock the smartphone.
- **Password**: Enter a password to unlock the smartphone.

Some of the following options are not available depending on the screen lock chosen.

- **Wallpaper**: Set the wallpaper for **Simple lock**, **Visual lock**, or **Modern lock**.
- **Shortcuts:** Select applications to add them to **Visual lock** or **Modern lock**.
- **Owner info**: Enter a slogan to display it on the lock screen.
- **Improve face matching**: Make another face registration in a different environment for improved recognition.
- **Liveness check**: Require eye blink while unlocking.
- **Make pattern visible**: Allow the display of patterns when they are being drawn.
- **Automatically lock**: Set the length of time that the smartphone waits before locking itself.
- **Power button instantly locks**: Set to enable the Power/Lock key to lock the smartphone instantly.
- **Vibrate on touch**: Set to vibrate when drawing a pattern or entering a PIN or password to unlock the smartphone.

**Wallpaper**

Select a wallpaper for the Home screen.

- **Gallery**: photos taken by the smartphone's camera and pictures stored on the memory card
- **Live Wallpapers**: animated images
- **Wallpapers**: still images

**Font size**

Select and tap the font size that you want for the font.

**Phone ringtone**

Select a ringtone for incoming calls.

**Default notification**

Select a ringtone to apply to notifications.

**Current default**

Deselect apps that are set as default.

To set an app as the default application to open a file, perform an action using the file and check **Always**. For example, to set an alternate browser as the default browser, deselect the current default here, and then tap on a link. When the choice to select a browser appears, check the option **Always**.

**Dialpad style**

The dialpad can take on different appearances. Select a dialpad skin.

**Dialpad gesture**

Dialpad skins can have gestures associated with them.

- **Default**: Associate no gesture.
- **Motion-tilt**: With this option chosen, tilt the smartphone back to display the speed dialpad, and tilt forward to return to the normal dialpad.
- **Motion-flip**: With this option chosen, shake the smartphone back and forth to switch between the normal dialpad and the speed dialpad.

# Wireless & Networks

## Airplane mode

Switch the smartphone to Airplane mode to disable all wireless connections.

## Wi-Fi

See "Connecting to a Wi-Fi Network" on page 47.

## Bluetooth

See "Pairing with a Bluetooth Device" on page 49.

## Data usage

**Note**

Tap ⋮ and make sure **Show Wi-Fi usage** is turned on to check and control data transfer via Wi-Fi as well as mobile service.

**MOBILE**

Fine-tune mobile data usage.

- **Mobile data**: Allow data communication over mobile networks. When this is turned on, customized controls enable careful management of data transfer limits to keep data transfer fees low.
- **Set mobile data limit**: Set the mobile data limit when Mobile data is ON.
- **Alert me about data usage**: Set the phone to alert you when mobile data usage reaches the preset warning amount. The menu is enabled when Mobile data is ON.

The graph on the lower part of the screen has several slidebars that set limits. The white vertical bars control the time period, which can be set to the customer's billing cycle.

Tap ⋮ and check **Data roaming** to permit data roaming over mobile networks. Note that this can incur excessive data transfer charges.

Tap ⋮ and check **Restrict background data** to prevent apps from automatically updating information that is sent periodically without user actions, such as data on some webpages, or data updated on Maps.

Tap ⋮ and check **Auto-sync data** to set to synchronize data automatically.

Tap ⋮ > **Mobile hotspots** to set the Wi-Fi networks which are mobile hotspots.

**WI-FI**

Tap ⋮ > **Show Wi-Fi usage** to display the Wi-Fi tab.

Tap the **Wi-Fi** tab to fine-tune how applications access the data network using Wi-Fi.

Tap individual applications to modify how they interact with available data networks. Tap **View app settings** to change the application's settings from this screen.

## Call settings

See "Phone Settings" on page 61.

## More

- **VPN**: Add a virtual private network.
- **Tethering & portable hotspot**: Allow other devices to access the Internet via the mobile service that this smartphone uses. See "Tethering or Mobile Hotspot" on page 48.

- **USB tethering**: Allow sharing over mobile network via USB connection.
- **Mobile hotspot**: Allow sharing over mobile network via Wi-Fi.
- **Mobile hotspot settings**: Configure network settings for Wi-Fi hotspot.
- **Bluetooth tethering**: Allow sharing over mobile network via Bluetooth.
- **Help**: View the help information for USB tethering, Bluetooth tethering, and Mobile hotspot.

• **NFC**: See "Exchanging Data via NFC" on page 53.

• **Android Beam**: See "Exchanging Data via NFC" on page 53.

• **Mobile networks**
- **Data enabled**: Allow data communication over mobile network.
- **Data roaming**: Allow data communication even while roaming abroad.
- **Network mode**: This option is by default set to **Global** mode, thus allowing use of any type of mobile network for domestic and abroad travel. To only use a specific type of mobile network, select either **LTE/ CDMA** or **GSM/ UMTS**.
- **Network operators**: Select a network operator. This option is available only when the **Network mode** option is set to **GSM/UMTS**.
- **Access Point Names**: Edit the existing or create a new access point to use GSM mobile networks.
- **Network type and strength**: View the type and strength of the mobile network in use.
- **Roaming**: View the information about the roaming service in use.

• **Data restrict time**: Set a time slot to restrict data communication.

• **SSLv2/SSLv3**: Disable this data encryption protocol to avoid the potential weakness for security if necessary.

# Device

## Sound

- **Volumes**: Adjust the volume for ringtone, media and game playback, notifications, alarms, and systems.
- **Sound profile**: Set to **Sound**, **Vibrate**, or **Mute**.
- **Phone ringtone**: Select a ringtone.
- **Vibrate when ringing**: Set to vibrate and ring at the same time.
- **Default notification**: Select a sound for notification and incoming messages.
- **Dial pad touch tones**: Set to sound when tapping a key on the dialpad.
- **Touch sounds**: Set to sound when tapping an on-screen button, icon, or key.
- **Screen lock sound**: Set to sound when locking and unlocking the smartphone.
- **Vibrate on touch**: Set to vibrate when tapping an on-screen button, icon, or key.
- **Emergency tone**: Set to sound when entering the emergency mode.
- **NFC sound in call**: Set to sound when using the NFC feature while on a call.
- **Roaming sound**: Set to sound when entering a roaming zone.

## Display

- **Brightness**: Adjust the brightness. Checking **Automatic brightness** lets the smartphone automatically adjust brightness to suit current light levels. Lowering the brightness or letting the phone lower it under low light conditions helps to conserve battery power.
- **Wallpaper**: Select a wallpaper for the Home screen.
- **Auto-rotate screen**: Allow the interface to rotate when rotating the smartphone.
- **Screen timeout**: Set the length of time that the smartphone waits before locking itself.
- **Font size**: Select a default font size for the interface.
- **Roaming banner**: Set to display the roaming text when roaming abroad.
- **Navigation bar theme**: Set the navigation bar theme.
- **Screen capture area**: Set the screen capture area between full and partial screens.

## Motion recognition

See "Hand Motions" on page 23.

To configure details, tap **Motion recognition**.

- **Motion recognition guideline**: View how to use motion recognition guideline.
- **Music**: Check the box to enable for motion recognition for Music.
- **Gallery**: Check the box to enable for motion recognition for Gallery.
- **Receive voice call**: Check the box to enable for motion recognition for voice call.
- **Speakerphone usage**: Set an option to use speakerphone when receiving the voice call.

# Storage

### USB connection options

Connect the smartphone to a computer as a removable storage device.

See "Transferring Files via USB Connection" on page 52.

- **Media device (MTP)**: The computer recognizes both the smartphone's internal memory and the memory card.
- **Camera (PTP)**: The computer recognizes only picture files. Whereas Windows XP recognizes only the smartphone's internal memory, Windows 7 recognizes both the internal memory and memory card.
- **External memory (SD card)**: The computer recognizes only the smartphone's memory card.
- **PC data mode**: This is only used by developers.
- **Ask on plug**: Set to display this setting screen when connecting the smartphone to a computer.

### Internal Storage and SD card storage

Check how much of the internal memory and memory card is occupied.

- **Mount SD card**: Mount the memory card to use it.
- **Unmount SD card**: Unmount the memory card to remove it from the smartphone.
- **Erase SD card**: Delete all the data on the memory card.

## Battery and Power saver

- **Battery information**

  The battery state of charge is displayed with the percentage of the battery power on the upper part of the screen. **Charging (AC)** or **Charging (USB)** indicates that the smartphone is connected to the charger or a computer. **Discharging** indicates that it is not connected to any power source. Checking the checkbox beside this shows the percentage of battery power remaining in the status bar on the top of the screen.

  Tap the graph to see a visual depiction of recent power usage.

  Tapping the button on the lower part of the screen opens the relevant setting menu to allow fine-tuning.

- **Power saver**

  Activate the power saving feature by tapping the power icon.

  This feature assists users in conserving the smartphone's available power. Tap **More options** to fine-tune which activities run or are turned off to save power.

  - **Disable features below at:** Specify a battery level below which the features chosen below turn off.
  - **Wi-Fi**: Deactivate Wi-Fi.
  - **Bluetooth**: Deactivate Bluetooth.
  - **Touch feedback**: Prevent vibration and sound from screen touch.
  - **Screen timeout**: Set the lock timer to 15 seconds.
  - **Screen brightness**: Allow the device to adjust the screen brightness automatically to match current lighting conditions. In darker conditions, the screen brightness drops to conserve power.
  - **Adjust screen brightness**: Adjust the screen brightness using the slider.

## Applications manager

Use this menu to manage apps.

> **Note**
> Interfering with running applications may cause them to crash. Apps have both processes and services. The process is the main app functionality or the program itself. The services that run in the background provide the process with valuable and often critical information. Shutting down a service often corrupts or stops a process. For example, the Clock app requires an update service that keeps the clock accurate.

There are three tabs:

- **DOWNLOADED** displays all applications that have been downloaded onto the smartphone.
- **RUNNING** shows just those apps that are currently operating and the services supporting those apps.
- **ALL** shows every app, both downloaded and running, installed on the smartphone.

Tap an app to open its page. Any relevant information about the app appears. Buttons also appear, depending on the app. These buttons allow users to control the app.

- **Force stop**: This cancels the application immediately.
- **Disable**: Tap this to disable the application. If you disable a built-in application, other applications may misbehave.
- **Uninstall**: Tap this to uninstall the downloaded application.
- **Uninstall updates**: Tap this to remove any recent updates. This is useful if a recent update has rendered an application inoperable.
- **Clear data**: Tap this to clear an application's stored data. This is one way to, for example, wipe out any locally saved email or images, erase account and password data and otherwise delete any remaining information saved by the program.

> **Note**
> Deleted data cannot be restored. Proceed with extreme caution.

- **Clear cache**: Clearing the cache wipes out the temporary data stored for daily purposes, such as website images or data downloaded for faster loading convenience or stored map information.
- **Clear defaults**: When two or more apps of the same kind are installed, one of them can be set as the default app. This button clears the setting of default app so that a different app can be set as the default app.
- **Stop**: This stops a program.
- **Report**: If an app is failing, and a reporting service is available, tapping Report sends a crash or failure report to the app's producer.
- **Settings**: If an app has any modifiable settings, they may be accessible from this page.

# Personal

## Location access

See "Location-Based Services" on page 57.

## Security

The security options determine how the smartphone interacts with users. Some of the following options are not available depending on the screen lock chosen.

- **Screen lock**: See "Screen lock" on page 141.
- **Wallpaper**: Set the wallpaper from Gallery image, Wallpaper image, or Home wallpaper image.
- **Shortcuts**: Set shortcuts for Phone, Messaging, Camera, Music, and all applications.
- **Encrypt phone**: Encrypt all data on the smartphone. Turning on or activating the smartphone or any of its apps requires the unencrypt password. Without the password, the smartphone must be reset to factory conditions, and all data is lost. Encrypting the phone can take over an hour and, if interrupted, will likely corrupt the smartphone's data.
- **Encrypt SD card**: Set to requireto decrypt SD card each time it is connected.
- **Set up SIM card lock**: Lock the SIM card, or change its PIN.
- **Make passwords visible**: Allow the display of passwords when they are being entered into password fields . Otherwise, they are obscured to prevent others from seeing them.
- **Device administrators**: View or deactivate the smartphone administrators.
- **Unknown sources**: Allow installation of apps from sources other than Play Store.

- **Trusted credentials**: View trusted website identification credentials. All sites listed here are opened without high-level security blocks and are trusted not to be spam or present malware infection opportunities.
- **Install from SD card**: Install credentials and certificates from the SD card.
- **Clear credentials**: Remove all certificates. Previously trusted sites must be visited and approved again.

## Language & input

- **Language**: Choose a language for the interface.
- **Personal dictionary**: Add words to the predictive text dictionary. These words appear as options when typing text and are used for spell-checking or correcting.
- **Default**: See "Entering Text" on page 67.
- **Voice Search**:
  - **Language**: Choose a language for the voice recognition.
  - **Speech output**: Choose a speech output time.
  - **Block offensive words**: Replace offensive words in transcription with a placeholder.
  - **Hotword detection**: Set to launch voice search when saying Google.
  - **Download offline speech recognition**: Enable voice input while offline.
  - **Bluetooth headset**: Set to record audio through Bluetooth headset if available.
- **Text-to-speech output**: Choose a speech synthesis engine, and set speech rate.
- **Pointer speed**: Adjust the pointer speed of the Bluetooth mouse connected to the smartphone.

## Backup & reset

- **Back up my data**: Back up the app data, passwords and other setting information to the Google server.
- **Backup account**: Select a Google account for backing up.
- **Automatic restore**: Allow automatic restoration of an app's old setting data when reinstalling an app.
- **Factory data reset**: Reset the smartphone to factory settings and erase all data on it. Note that all data is lost, unless backed up.

# Accounts

## Backup Assistant Plus

See “Backup Assistant Plus” on page 64.

## Accounts & sync

See “Signing Up for a Google Account” on page 28.

# System

## Date & time

- **Automatic date & time**: Use the time information provided by the mobile network.
- **Automatic time zone**: Use time zone information provided by the mobile network.
- **Set date**: Set the current date manually.
- **Set time**: Set the current time manually.
- **Select time zone**: Select a time zone. This is available only when **Automatic time zone** is unchecked.
- **Use 24-hour format**: Use either the 24-hour or the 12-hour time format.
- **Choose date format**: Select a date format.

**Note**

The **Set date** and **Set time** options are available only when the **Automatic date & time** option is unchecked.

## Accessibility

- **TalkBack**: With this feature activated, the smartphone provides spoken feedback so users with poorer vision can more easily use the smartphone.
  - **Speech volume**: Set an option to match speech volume.
  - **Use pitch changes**: Set to use keyboard feedback in a lower-pitched voice.
  - **Keyboard echo**: Set to **Always speak typed keys**, **Only for on-screen keyboard**, or **Never speak typed keys**.
  - **Speak when screen is off**: Even if the screen is deactivated or dark, actions still involve the phone speaking.

- **Use proximity sensor**: With this activated, the phone does not speak if the user is close to the phone.
- **Shake to start continuous reading**: Set to shake the device to start continuous reading.
- **Speak caller ID**: The smartphone speaks any caller ID information available when other users call the smartphone.
- **Vibration feedback**: The phone used vibrations to indicate phone activity.
- **Sound feedback**: The phone provides feedback sounds for assigned actions.
- **Focus speech audio**: Set to decrease other audio volume while speaking.
- **Sound volume**: This set the sound volume for sound feedback.
- **Explorer by touch**: Set to explorer by touch.
- **Launch "Explorer by touch" tutorial**: View the "Explorer by touch" tutorial.
- **Manage shortcut gestures**: Set a shortcut gesture.
- **Developer settings**: Set the developer setting options: **Log output level** and **Display speech output**.

• **Large text**: Permit larger text size for easier reading of the interface.

• **Power button ends call**: Allow the Power/Lock key to end a call.

• **Auto-rotate screen**: Allow the interface to rotate when rotating the smartphone.

• **Speak passwords**: Allow the smartphone to read out passwords entered if the Talkback feature is enabled.

• **Text-to-speech output**: Choose a speech synthesis engine, and set speech rate.

• **Touch & hold delay**: Select a time delay for the smartphone to recognize that the screen is tapped and held.

• **Enhance web accessibility**: Allow apps to install web scripts that make their web content more accessible. This can compromise Browser and Android security.

## Developer options

This menu contains many items designed for developers to assist in developing applications. It has no user-serviceable content. Activating any of these options may cause the operating system or the user interface to become unpredictable.

## About phone

This page displays Smartphone information about the smartphone, including the specific model number, software versions, and the build number.

- **Icon glossary**: This shows a useful, itemized list of all interface icons used by the smartphone.
- **Software Update**: See "Updating the Software" on page 165.
- **Status:** Tap Status to examine the smartphone's battery power, operating software conditions, and network connections.
- **Legal information**: All software licenses are indicated here. Some are Open-source licenses, and some are Google legal.

# Appendix

## Maintenance

Maintaining the smartphone in optimal condition helps give it a very long service life.

There are several ways to make sure the phone remains in top condition.

### Use a Case

A form-fitting, shock-absorbing case helps to protect the phone from more than just the occasional scratch or nick. A case can protect against shock from drops, impacts or neglect.

### The Display

The touchscreen is a very sensitive, durable but also carefully engineered interactive surface. Scratches, excessive pressure and impacts damage the screen's ability to sense contact and to display.

Do not use excessive force when touching the screen and do not subject it to impacts.

### Avoid Drops and Shocks

This smartphone is a highly complex, precision-made electronic device. Impacts, drops and shocks can damage or even destroy the phone. The touchscreen is especially vulnerable to impacts.

### Avoid Water

Water is devastating to electronic devices. Avoid exposure to water and high humidity. If the phone is immersed in water, ensure that it is turned off. Do not reactivate the phone until it is completely dry. The best idea is to have it serviced.

**Avoid Heat**

Do not leave the smartphone in very hot or sunny areas. The smartphone can withstand a wide temperature range, but excessive amounts of time sitting on the dashboard of a car in the sunlight, on a radiator or in a very hot environment can damage the electronic and physical components.

**Avoid Cold**

Cold temperatures drain the battery more quickly than moderate or warm temperatures. To avoid stressing the battery's energy-retention ability and shortening its life, avoid leaving the phone in sub-zero temperatures for prolonged periods of time.

**Avoid Dust**

Particulate matter like dust tends to corrupt and damage most electronic devices. Keep the phone away from dust and fine particles.

**Cleaning**

Keep the phone clean to avoid organic substance buildup or residues. To clean the touchscreen, use a damp, soft cloth.

Do not use any abrasive cleaners, and do not pour water directly onto the phone. The touchscreen and lens surfaces may be scratched. Avoid contacting them with any abrasive substance.

Many cleaning products damage plastic, metal and glass components. These cleaners can include benzine, paint thinners or alcohol-based compounds. Be careful when choosing a cleaning product for use with this smartphone.

**Avoid Electric Shocks**

Do not subject the smartphone to electrical shocks or high levels of random static electricity. As an electrical device, this smartphone may be damaged by sudden surges in electrical power from either charging or from the environment.

If the phone suffers from electrical damage, it may not be reparable.

**Avoid Strong Electromagnetic Fields**

Devices with strong electromagnetic fields or areas with strong natural electromagnetism may interfere with the phone's ability to connect to networks and may also interfere with the phone's regular operation.

**The Battery**

Do not subject the battery to abuse, pressure, shocks, moisture or fire. The battery is a chemical power storage device. It also has a significant electronic component. If it is shorted, it can cause fires. If pierced, its chemical components may cause injury.

**Charge Indoors**

Be cautious when charging the phone outdoors. If left for a prolonged period outdoors, the phone may suffer from changes in humidity, from inclement weather or from unsanitary conditions.

**Chargers**

Do not use chargers and charging cables meant for other devices. Doing this could damage the smartphone and void the warranty.

**Connectors**

The connector is designed to fit snugly into the socket in the phone. Do not exert pressure or torsion on the connector. This connection is vital for the use of the phone, and if it is damaged, the phone may not be chargeable and it may be impossible to transfer data to and from a computer.

**Inserting and Removing Cards**

This device is precision-designed to be compact and versatile. As a result, all of its moving parts are designed to take up as little space as possible. Do not use force to remove or insert microSD card into the phone, as this can damage both the card and the card socket.

**Do Not Disassemble**

Do not take this smartphone apart. While it may be possible to reassemble it, the parts and components of this smartphone are very delicate and are encased in the protective shell to keep them safe. Disassembling the phone can easily damage the phone's internal components.

**Only Use Safe Software**

Customizing the phone is fun and can be very useful. However, some applications and procedures designed to alter the phone's operating system or bypass the phone's security measures can damage the phone. At the very least, data can be rendered irretrievable.

Avoid using dangerous procedures or installing applications from unverified sources.

**Backup Data**

Back up contacts, media files and email messages regularly, or keep them on a remote service, such as Google. If the phone is reset, is lost, or is stolen, all of the data and apps on the smartphone are lost. Backups help restore data which would otherwise be irretrievable.

## Cautions when Using External Memory Cards

- Unstable voltages may cause memory cards or the phone to malfunction.
- Avoid using or storing memory cards near strong magnetic fields or electrical noise.
- Avoid using or storing memory cards in areas with high temperature, high humidity, or corrosive substances.
- Do not bend, drop, or subject memory cards to heavy impact or pressure.
- Keep memory cards away from small children or pets.
- Memory cards may heat up after using the phone for an extended period time. This is normal and does not indicate a malfunction.

- Ensure that a memory card is inserted in the correct direction. Inserting a memory card in the wrong direction may cause a malfunction.
- This phone supports only microSD memory cards. Use the correct type of memory card.
- You cannot use a memory card when its lifespan has expired. In this case, use a new memory card.
- Handle all memory card carefully.
- Format a memory card only on your computer or the phone where it will be used.
- Do not remove the battery from the phone when a memory card is being used. This may corrupt the data or cause a malfunction. Pantech is not responsible for any loss of data.
- Your phone supports only microSD memory cards in sizes up to 32 GB. Some memory cards may not work on your phone depending on the capacity or manufacturer. Pantech does not guarantee the functionality or compatibility of memory cards.
- You can store photos, videos, documents, MP3 files, and more on a memory card. Ensure your memory card has enough available space. Your phone cannot recognize a memory card that is full.
- To remove a memory card from your phone safely, tap **Apps** > **Settings** > **Storage** > **Unmount SD card** or turn off the phone before removing the card.

## Updating the Software

Many important software updates become available from time to time. These updates may improve the phone's performance or deal with any outstanding issues.

The latest software can be directly transmitted to the smartphone via wireless networks.

Go to **Settings** > **About phone** > **Software update**.

In Starter mode: **Settings** > **System** > **About phone** > **Software Update**

This page shows the current software version. Tap **Status** to see the smartphone's current software operating state and the date of the last update. Tap **Check New** to check out the latest software and download it to your phone.

# End User License Agreement (EULA)

Your use of Visual Voice Mail confirms that you are the account owner or manager. This service requires traditional Voice Mail but does not support all traditional Voice Mail features, which you can access by dialing *86 from your handset. Download and use of this app will be billed on a per-megabyte basis, or according to any data package you have. Mobile to mobile minutes do not apply. Standard rates apply to any calls or messages initiated from Visual Voice Mail.

You may need to call customer care to cancel and if you cancel Visual Voice Mail you may lose all stored voice mails and information. I understand that by selecting "OK" my password and messages will be stored and anyone in possession of this device will have access to my voice mail. I further understand that my voice mail messages may be stored in electronic format on this device. To limit unauthorized access to your voice mail you should consider locking your phone when not in use. Not available in all areas or over Wi-Fi. If you do not accept all of these terms and conditions do not use Visual Voice Mail.

# Safety Information

## USB

The connection to USB interfaces has to be limited to USB 2.0 version or higher. The connection to so called power USB is prohibited.

## Battery

For safe use of the battery, observe the following instructions:

a. Caution risk of explosion if battery is replaced by an incorrect type.

b. Dispose of used batteries according to the instructions.

c. Do not disassemble or open crush, bend or deform, puncture or shred.

d. Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.

e. Only use the battery for the system for which it is specified.

f. Only use the battery with a charging system that has been qualified with the system per CTIA Certification Requirements for Battery System Compliance to IEEE1725. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.

g. Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.

h. Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.

i. Promptly dispose of used batteries in accordance with local regulations

j. Battery usage by children should be supervised.

k. Avoid dropping the phone or battery. If the phone or battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.

l. Improper battery use may result in a fire, explosion or other hazard.

m. The adapter shall be installed near the equipment and shall be easily accessible.

# Safety Information for Wireless Handheld Phones

Read this information before using your handheld portable mobile telephone.

## Exposure to Radio Frequency Signals

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals. In August 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

* ANSI C951 (1992)

** NCRP Report 86 (1986)

*** ICNIRP (1996)

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C951).

The design of your phone complies with the FCC guidelines (and those standards).

* American National Standards Institute.

** National Council on Radiation Protection and Measurements.

*** International Commission on Non-Ionizing Radiation Protection.

## Antenna Safety

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Please contact your local dealer for replacement antenna.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

## Driving Safety

Talking on the phone while driving is extremely dangerous and is illegal in some states. Remember, safety comes first. Check the laws and regulations on the use of phones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

- Give full attention to driving. Driving safely is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions so require.

If you must use the phone while driving, please use one-touch, speed dialing, and auto answer modes.

An airbag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the airbag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

> **Warning**
> Failure to follow these instructions may lead to serious personal injury and possible property damage.

## Protect Your Hearing

Listening to a headset at high volumes can damage your hearing. Use only the minimum volume setting necessary to hear your conversation or music.

## Electronic Devices

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals. Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Therefore, use of your phone must be restricted in certain situations.

### Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers:

- ALWAYS keep the phone more than six inches from your pacemaker when the phone is turned on.
- Do not carry the phone in a breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

### Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives).

### Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Turn your phone OFF in healthcare facilities when any regulations posted in these areas instruct you to do so. Hospitals or healthcare facilities may be using equipment that could be sensitive to external RF energy.

### Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

### Posted Facilities

Turn your phone OFF where posted notices so require.

## Other Safety Guidelines

### Aircraft

FCC regulations prohibit using your phone while in the air. Turn your phone OFF before boarding an aircraft. Always request and obtain prior consent and approval of an authorized airline representative before using your phone aboard an aircraft. Always follow the instructions of the airline representative whenever using your phone aboard an aircraft, to prevent any possible interference with airborne electronic equipment.

### Blasting Areas

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

**Potentially Explosive Atmospheres**

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gas stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle's engine.

## Precautions

Your Handheld Portable Telephone is a high quality piece of equipment. Before operating, read all instructions and cautionary markings on (1) USB AC Adapter (2) Battery and (3) Product Using Battery.

Failure to follow the directions below could result in serious bodily injury and/or property damage due to battery liquid leakage, fire or rupture.

- DO NOT use this equipment in an extreme environment where high temperature or high humidity exists.
- DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using, lay down the unit to avoid possible damage due to instability.
- DO NOT expose this equipment to rain or spilled beverages.
- DO NOT use unauthorized accessories.
- DO NOT disassemble the phone or its accessories. If service or repair is required, return unit to an authorized PCD mobile service center. If unit is disassembled, the risk of electric shock or fire may result.
- DO NOT short-circuit the battery terminals with metal items etc.

# Safety Information for FCC RF Exposure

Warning! Read this information before using.

## Cautions

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

In the United States, 5180–5240 MHz band is restricted to indoor-use only. Outdoor operation on this band is a strict violation of the FCC rules and can cause harmful interference to commercial radar communications. For outdoor operation, channels in 5180–5240 MHz band must not be used. If using automatic channel assignment, add channels in this band to the Automatic channel exclusion list.

## Body-Worn Operation

This device was tested for typical body-worn operations with the back of the phone kept 1 cm from the body. To maintain compliance requirements, use only belt-clips, holsters or similar accessories that maintain a 1cm separation distance between the user's Body and the back of the phone, including the antenna.

The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

**Note**

For more information about RF exposure, visit the FCC website at http://www.fcc.gov.

# SAR Information

This model phone meets the government's requirements for exposure to radio waves.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 1.03 W/Kg and when worn on the body, as described in this user guide, is 0.76 W/Kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The SAR testing for Body-worn operation was performed with a belt clip that provided a 1cm separation. The User's Manual indicates that any holsters/ clips used with this device should contain no metallic components.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines.

SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/ea after searching on JYCPREMIAV.

Additional information on Specific Absorption Rates (SAR) can be found on the Mobile Telecommunications Industry Association (CTIA) web-site at http://www.ctia.org.

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

## Hearing Aid Compatibility (HAC) for wireless telecommunication devices

**PCD's Commitment**

PCD believes that all of our customers should be able to enjoy the benefits of digital wireless technologies.

We are committed to providing a selection of compatible devices for our customers who wear hearing aids.

This phone has a HAC rating of M4/T3.

**What is Hearing Aid Compatibility?**

The Federal Communications Commission has implemented rules and a rating system designed to enable people who wear hearing aids to more effectively use these wireless telecommunications devices. The standard for compatibility of digital wireless phones with hearing aids is set forth in American National Standard Institute (ANSI) standard C6319. There are two sets of ANSI standards with ratings from one to four (four being the

best rating): an "M" rating for reduced interference making it easier to hear conversations on the phone when using the hearing aid microphone, and a "T" rating that enables the phone to be used with hearing aids operating in the telecoil mode thus reducing unwanted background noise.

**How will I know which wireless phones are hearing aid compatible?**

The Hearing Aid Compatibility rating is displayed on the wireless phone box.

A phone is considered Hearing Aid Compatible for acoustic coupling (microphone mode) if it has an "M3" or "M4" rating. A digital wireless phone is considered Hearing Aid Compatible for inductive coupling (telecoil mode) if it has a "T3" or "T4" rating.

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids. It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider about its return and exchange policies and for information on hearing aid compatibility.

**How will I know if my hearing aid will work with a particular digital wireless phone?**

You'll want to try a number of wireless phones so that you can decide which works the best with your hearing aids. You may also want to talk with your hearing aid professional about the extent to which your hearing aids are immune to interference, if they have wireless phone shielding, and whether your hearing aid has a HAC rating.

MORE INFORMATION ABOUT HEARING AIDS AND DIGITAL WIRELESS PHONE

- For FCC Hearing Aid Compatibility and Volume Control, visit http://www.fcc.gov/cgb/dro/hearing.html.
- For Hearing Loss Association of America, visit http://www.hearingloss.org/content/understanding-hearing-loss.
- For CTIA, visit http://www.accesswireless.org/Disability-Categories/Hearing.aspx.
- For Gallaudet University, RERC, visit http://tap.gallaudet.edu/voice.

## Teletypewriter (TTY) Devices

You can use an optional teletypewriter (TTY) device with your phone to send and receive calls. You must plug the TTY device into the phone's headset connector and set the phone to operate in one of three TTY modes.

**Note**

A TTY is a communication device used by people who are hard of hearing or have a speech impairment. TTY does not work from mobile phone to mobile phone. Use a TSB-121 compliant cable (provided by the TTY manufacturer) to connect the TTY device to your phone. Your phone has a 3.5 mm jack. Set the phone to Medium volume level for proper operation. If you experience a high number of incorrect characters, adjust the volume as needed to minimize the error rate. For optimal performance, your phone should be at least 12 inches (30 centimeters) from the TTY device. Placing the phone too close to the TTY device may cause high error rates.

# FDA Consumer Updates

U.S. Food and Drug Administration Center for Devices and Radiological Health Consumer Update on Wireless Phones

**1. Do wireless phones pose a health hazard?**

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the Home Screen. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

**2. What is FDA's role concerning the safety of wireless phones?**

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists. Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some inter-agency working group activities, as well. FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

**3. What kinds of phones are the subject of this update?**

The term "wireless phone" refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head.

These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

**4. What are the results of the research done already?**

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neu-roma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

**5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?**

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do -may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

**6. What is FDA doing to find out more about the possible health effects of wireless phone RF?**

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996 An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues. FDA and the Mobile Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

**7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?**

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

**8. What has FDA done to measure the radiofrequency energy coming from wireless phones?**

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

**9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?**

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance.

For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna. Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

**10. What about children using wireless phones?**

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

**11. What about wireless phone interference with medical equipment?**

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

**12. Where can I find additional information?**

For additional information, please refer to the following resources:

- For FDA web page on wireless phones, visit http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm.
- For Federal Communications Commission (FCC) RF Safety Program, visit http://www.fcc.gov/encyclopedia/radio-frequency-safety.
- For International Commission on Non-Ionizing Radiation Protection, visit http://www.icnirp.de.
- For World Health Organization (WHO) International EMF Project, visit http://www.who.int/peh-emf.

For National Radiological Protection Board (UK), visit http://www.hpa.org.uk.

## Avoid potential hearing loss

Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as portable music players and cellular telephones, at high volume settings for long durations may lead to permanent noise-induced hearing loss. This includes the use of headphones (including headsets, earbuds and Bluetooth® or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound and distorted hearing. Individual susceptibility to noise-induced hearing loss and other potential hearing problems varies.

The amount of sound produced by a portable audio device varies depending on the nature of the sound, the device, the device settings and the headphones. You should follow some commonsense recommendations when using any portable audio device:

- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.
- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise.
- Limit the amount of time you listen. As the volume increases, less time is required before your hearing could be affected.
- Avoid using headphones after exposure to extremely loud noises, such as concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.
- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

**You can obtain additional information on this subject from the following sources:**

**American Academy of Audiology**

11480 Commerce Park Drive Suite 220

Reston, VA 20191

Voice: 800-AAA-2336

Email: infoaud@audiology.org

Internet: http://www.audiology.org

**National Institute on Deafness and Other Communication Disorders National Institutes of Health**

31 Center Drive, MSC 2320
Bethesda, MD USA 20892-2320

Voice: (301) 496-7243

Email: nidcdinfo@nidcd.nih.gov

Internet: http://www.nidcd.nih.gov/health/hearing

**National Institute for Occupational Safety and Health**

1600 Clifton Rd
Atlanta GA 30333 USA

Voice: 1-800-CDC-INFO (1-800-232-4636)

Internet: http://www.cdc.gov/niosh/topics/noise/default.html

# FCC compliance information

This device complies with Part 15 of FCC Rules.

**Operation is subject to the following two conditions:**

- This device may not cause harmful interference, and
- This device must accept any interference received. Including interference that may cause undesired operation.

## Information to the User

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful Interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if Not installed and used in accordance with the instructions, may cause harmful Interference to radio communications. However, there is no guarantee that interference will not occur in a particular Installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
  Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

**Caution**

Changes or modification not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.

# 12-month limited warranty

Personal Communications Devices, LLC. (the "Company") warrants to the original retail purchaser of this handheld portable mobile telephone, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) month period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

The antenna, keypad, display, rechargeable battery and battery charger, if included, are similarly warranted for twelve (12) months from date of purchase.

This Warranty extends only to consumers who purchase the product in the United States or Canada and it is not transferable or assignable.

This Warranty does not apply to:

- Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- Product whose mechanical serial number or electronic serial number has been removed, altered or defaced.
- Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;
- Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
- Product damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

The Company disclaims liability for removal or reinstallation of the product, for geographic coverage, for inadequate signal reception by the antenna or for communications range or operation of the mobile system as a whole.

When sending your wireless device to Personal Communications Devices for repair or service, please note that any personal data or software stored on the device may be inadvertently erased or altered. Therefore, we strongly recommend you make a back up copy of all data and software contained on your device before submitting it for repair or service. This includes all contact lists, downloads (i.e. third-party software applications, ringtones, games and graphics) and any other data added to your device. In addition, if your wireless device utilizes a SIM or Multimedia card, please remove the card before submitting the device and store for later use when your device is returned, Personal Communications Devices is not responsible for and does not guarantee restoration of any third-party software, personal information or memory data contained in, stored on, or integrated with any wireless device, whether under warranty or not, returned to Personal Communications Devices for repair or service.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of Warranty coverage (e.g. dated bill of sale), the consumer's return address, daytime phone number and/or fax number and complete description of the problem, transportation prepaid, to the Company at the address shown below or to the place of purchase for repair or replacement processing. In addition, for reference to an authorized Warranty station in your area, you may telephone in the United States (800) 229-1235, and in Canada (800) 465-9672 (in Ontario call 416-695-3060).

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR AN SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product. Some states or provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitation or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights, which vary from state to state or province to province.

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